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UNITED STATES DISTRICT COURT
            FOR THE NORTHERN DISTRICT OF OHIO
2
                   EASTERN DIVISION
3
       IN RE: NATIONAL
       PRESCRIPTION
                                       MDL No. 2804
      OPIATE LITIGATION
                                       Case No.
5
       THIS DOCUMENT RELATES TO:
                                       1:17-MD-2804
       The County of Summit, Ohio
                                       Hon. Dan A.
      et al. v. Purdue
                                       Polster
       Pharma L.P., et al.
7
      Case No. 17-OP-45004
8
       The County of Cuyahoga v.
9
       Purdue Pharma L.P., et al.
      Case No. 18-OP-45090
10
                 TUESDAY, APRIL 30, 2019
11
       HIGHLY CONFIDENTIAL - SUBJECT TO FURTHER
12
                 CONFIDENTIALITY REVIEW
13
                 Videotaped deposition of Thomas G.
15
     McGuire, Ph.D., Volume II, held at the offices
16
     of Robins Kaplan LLP, 800 Boylston Street,
     Suite 2500, Boston, Massachusetts, commencing
     at 8:31 a.m., on the above date, before
18
19
     Carrie A. Campbell, Registered Diplomate
20
     Reporter and Certified Realtime Reporter.
21
22
23
24
               GOLKOW LITIGATION SERVICES
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1 ALSO PRESENT VIA STREAM:
2 CATE BREWER, Keller Rohrback
JUSTIN TAYLOR, Bailey Wyant
3
ERICA BENTON, Compass Lexecon
4 ALICE KAMINSKI, Compass Lexecon
HAL SIDER, Compass Lexecon
5
6
VIDEOGRAPHER:
7 ROBERT MARTIGNETTI,
Golkow Litigation Services
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

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```
VIDEOGRAPHER: We are now on
           the record. My name is Robert
3
           Martignetti. I'm a videographer for
           Golkow Litigation Services.
                  Today's date is April 30, 2019,
           and the time is 8:31 a.m.
                  This continued video deposition
           of Thomas McGuire is being held in
9
           Boston, Massachusetts, in re: National
10
           Prescription Opiate Litigation.
11
                  Will counsel that was not
12
           present for the first part of this
13
           deposition please identify themselves.
                   MR. ARNOLD: Andrew Arnold from
14
15
           Motley Rice for plaintiffs.
16
                  MS. SACKS: Shayna Sacks,
17
           Napoli Shkolnik, for Cuyahoga County.
18
                  MR. CARTER: Ed Carter for
19
           Walmart.
2.0
                  VIDEOGRAPHER: The court
21
           reporter is Carrie Campbell.
22
                   Professor McGuire, do you
23
           understand that you're still under
24
25
                  THE WITNESS: Yes, I do.
```

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DIRECT EXAMINATION (CONTINUED) QUESTIONS BY MR. KEYES: 3 Good morning, Professor McGuire. This is day two of your deposition. Day one was last Tuesday, April 30th {sic}. Do you understand you're still under oath today? Α. I do understand, yes. ο. What, if anything, did you do in connection with your engagement in this 11 case since you finished your testimony on day 12 one? 13 I continued to study my А. 14 reports. I had a phone call with staff Compass Lexecon. I requested and reviewed as 15 best I could several of the depositions that 16 17 took place since my initial day, and I met 18 with Tom Sobol yesterday, and I had a brief 19 call with David Ko yesterday as well. 20 Ο Anything else? 21 Α. No, that's all that I can 22 recall 23 Ο. You said you continued to study 24 your reports. 25 Do you mean both your report on

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```
Α.
                   Yes, it was a phone call.
            ο.
                   How long was the call?
                   It was less than half an hour,
            Δ
     T would say.
            Ο.
                   And when was the call?
                   I spoke with Alice yesterday.
            Δ
7
                   Did anyone participate in this
     call besides you, Alice Kaminski and this
     other person from Compass Lexecon whose name
10
     you don't know?
11
           Α.
                   No, there was no other person
12
     on the call.
13
            Ο.
                   Just the three of you?
14
            Α.
                   Just the three of us.
15
            ο.
                   Who initiated this phone call?
16
            Α.
                   Do you mean who requested the
17
     phone call or who --
18
            ο.
19
            Α.
                   -- actually dialed the number?
2.0
            Q.
                   Who requested the phone call?
21
                   I requested the phone call.
            Α.
22
23
                   Because I had a question about
24
      some part of the calculations.
                   Okay. And what was your
```

```
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     what you call damages and your report on what
     you call the public nuisance?
                  Yeah, those are the two reports
     I'm referring to.
           Q.
                  And did you read them in their
     entirety?
           Δ
                  I would say, yes, I read them
     in their entirety.
           Ο.
                  How much did you spend, quote,
10
     studying your two reports in the last week?
11
                  I would say I spent maybe six
     to eight hours.
13
           Ο.
                  You said you had a phone call
14
     with come Compass Lexecon?
15
                  That's right.
           Α.
16
                  Who did you speak with at
           Ο.
17
     Compass Lexecon?
18
                  I spoke with Alice Kaminski.
```

And there was another Compass Lex staff
person in the room, but I didn't catch her

21 name.

19

20

Q. And this was a phone call --

23 A. Yes.

Q. -- as opposed to as in-person

25 meeting?

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```
question?
           Α.
                  My question was I wanted to
3
     review the OUD, opioid use disorder,
     prevalence estimates.
                  What was your specific question
           Ο.
     about the OUD prevalence estimates?
                  I just wanted to review the
     entire section, so we just went through --
     it's a certain appendix to my report. We
10
     just went through it again.
11
           Ο.
                  And did you ask her to explain
12
     it to you?
13
                  Well, we just -- we reviewed
14
     it, so she helped me remember some of the
15
     stuff that was done there.
           Q.
16
                  What did she help you remember?
17
                  Really the entire operation.
18
           Q.
                  What do you mean "the entire
19
     operation"?
2.0
           Α.
                  I mean the procedure by which I
21
     estimated prevalence.
22
                  Can you be more specific about
23
     what she helped you remember about the
24
     procedure by which you estimated the
     prevalence of OUD?
```

```
Well, as I said, we went
     through the entire appendix step by step,
3
                  And she helped you reconstruct
     the various steps that were taken in your
     report to estimate the prevalence of OUD?
7
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, we
9
           discussed the -- and reviewed the
           attachment to my report, Attachment D
11
           or whatever it is.
12
     QUESTIONS BY MR. KEYES:
13
                  Did you talk to Ms. Kaminski
14
     and this other person from Compass Lexecon
15
     about anything else during your call
16
     vesterday?
17
           Α.
                  Actually, we did.
18
                  I asked them a question about
     the crime estimates to remind me of the
19
20
     nature of the -- some of the data I used in
21
     the report.
22
           Ο.
                  Okay. And what specific data
23
     are you referring to?
24
                  There's an abbreviation for the
25
     data. It's NIBRS, national institute --
```

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```
was true, for example, and that the coverage
     in our counties was -- while not 100 percent,
3
     was good.
           Ο.
                  And can you quantify good, if
4
5
     not 100 percent?
6
           Δ
                  I think around 80 percent.
7
                  Did you talk to Ms. Kaminski or
     the other person from Compass Lexecon about
     anything else regarding the crime estimates
10
     set forth in your report?
11
                  No, I didn't. That was the
12
     only question I asked about crime.
13
                  Okay. Besides the questions
14
     you asked about how you had estimated the
15
     prevalence of OUD and the question you asked
16
     about the crime estimates in your report, did
17
     you cover any other topics with Ms. Kaminski?
18
           Α.
                  No, those were the only two
19
     topics that we covered.
2.0
                  And separate from that phone
21
     call with Ms. Kaminski and this other unnamed
22
     person from Compass Lexecon yesterday, did
23
     you speak with anyone from Compass Lexecon
24
     about this engagement since your first day of
```

```
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     sorry, National Incident Based Reporting
     System. It's maintained by the FBI.
                 Okay. But what was your
     specific question?
                  Did you ask her what NIBRS
     stands for?
7
           Α.
                  No. No. I could look up that
     easy enough.
           Q.
                  Then what was your specific
10
     question?
11
                  My specific question was the --
           Α.
     to remind me about the coverage of that data
13
     set, which is incomplete.
14
           Ο.
                  How was it incomplete?
15
                  The data set includes units
16
     that report, and not all units report data
17
     into the reporting system.
18
                  Which units do not report into
           Ο.
19
     that system?
20
           Δ
                  Well, I think it varies across
     the country, really.
21
22
                  You said you asked the
           Ο
```

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guestion.

23

24

25

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Did she give you an answer?

Well, she reminded me that that

```
MR. SOBOL: Objection.
                  THE WITNESS: The phone call
3
           yesterday was the only conversation I
           had with anyone at Compass Lexecon.
     OUESTIONS BY MR. KEYES:
5
                  In your first day of deposition
     testimony, you mentioned a number of other
     people on the Compass Lexecon team that
9
     assisted you.
10
                  Do you remember that?
11
                  I do remember that.
12
                  Did you speak with any of those
13
     other people since your deposition last
14
     Tuesday?
15
                  The only people from Compass
16
     Lex I spoke to were Alice and her colleague
17
     yesterday.
18
                  And did Ms. Kaminski give you
19
     anything in writing either before or after
2.0
     yesterday's call?
21
                  No, Alice gave me nothing in
22
     writing in the week since.
23
                 How about the other person on
24
     this call yesterday?
                  No, nothing.
```

deposition last Tuesday?

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```
How about anyone else from
     Compass Lexecon?
3
                  There was no one else from
     Compass Lex that sent me any written
     material.
                  You said you studied
     depositions since your first day of
     deposition testimony; is that correct?
                  I'm not sure I used the word
     "studied." I requested depositions and
11
     looked at them as best I could.
12
           Ο.
                  What depositions did you
13
     request?
14
                  I requested depositions of
     Dr. Schumacher, Professor Cutler and
15
     Professor Gruber.
16
17
           Ο.
                  Did you request any other
18
     deposition transcripts?
19
                  No, I didn't. Those were the
20
     only depositions I requested.
21
           Q.
                  Did you get all three?
22
                  I did get all three, yes.
           Δ
23
                  Who did you get them from?
           Ο.
24
           Α.
                  I got them from counsel. I
     think there probably were more than one
```

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```
Α.
                  In total?
           ο.
                  In total.
                  I would say about three hours
           Δ
     in total.
           Ο.
                  And how much of that three
     hours did you spend reviewing
     Dr. Schumacher's deposition testimony?
7
                  I would say maybe it wasn't
9
     quite an hour for each deposition, but maybe
10
     a bit more for Schumacher and a bit less for
11
     the other two.
12
           Q.
                  And why is that? Why did you
13
     spend more time on Dr. Schumacher's
     deposition transcript than the other two?
14
15
                  The reason I spent more time
16
     with that -- ideally, of course, I'd have all
17
     the time in the world. It had to do with
18
     when I received them and how much time I
19
     could set aside at the time I got the
2.0
     depositions.
21
           Ο.
                  So when did you review the
22
     three transcripts?
23
                  I believe I reviewed all three
24
     transcripts yesterday.
                  Did you request the deposition
```

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```
source. I'm not -- I don't remember who sent
                  And you say you looked at the
     depositions. What do you mean?
                  Did you read them?
                  Well, I didn't read them in
     their entirety. As my mother would say about
     something like this, my eyes were bigger than
     my stomach.
                  They're about 400 pages, and
11
     I -- "studied them" is too strong a word.
     Something like "reviewed them" would be a
13
     good word.
14
                  Okay. And if you didn't review
           Ο.
15
     them in their entirety, how did you decide
     what parts to read and what parts to skip
16
17
     over?
                  I just -- I looked at the
18
           Α.
19
     pages. I seemed -- I tried to look for
20
     things that seemed that might be relevant to
21
     me, and I did the best I could in the time
22
     that I had.
23
                  Well, how much time did you
24
     spend reviewing these three deposition
25
     transcripts?
```

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```
testimony of anyone else besides these three
     people?
3
           Δ
                  Those were the only three
     depositions I requested.
                  Did you request the deposition
6
     testimony of any fact witness in the case?
                  In the time between my last
     meeting with you and today?
9
           Ο.
                  Yes.
10
                  No. These were the only three
11
     depositions I requested, period.
12
           Q.
                  Did you speak with
13
     Dr. Schumacher since the first day of your
     deposition?
14
15
           Α.
                  No, I did not speak with
16
     Dr. Schumacher.
17
                  How about Professor Cutler?
18
                  I did speak with Dr. Cutler.
19
           Q.
                  How about Professor Gruber?
2.0
                  No, I didn't speak with
21
     Professor Gruber.
22
                  So in addition to the things
23
     you list before that you had done since your
24
     first day of deposition, you also spoke with
     Professor Cutler, correct?
```

3

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I did speak with Professor Cutler but not about my testimony. 3 Okay. What did you speak with Professor Cutler about? We were at a dinner together. It's called a program dinner. David Cutler is the head of the Ph.D. training program for Ph.D. in health policy at Harvard University. I'm the director of admissions of that, and I was 11 among the faculty that attended the dinner. There were some students, and I spoke with David at the dinner. 14 Did you speak with him about Ο. 15 his deposition? Α. No, I didn't. 16 Did you speak with him about 17 Ο. your deposition? 18 19 Α. Not at all, no. 2.0 Did you speak with him about 21 any of the work that either of you had 22 performed in this case? 23 There was no substantive Α. 24 discussion -- excuse me. There was no 25 substantive discussion of any kind of the

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```
than half an hour.
           Ο.
                  And were both the meeting with
3
     Mr. Sobol and the call with Mr. Ko yesterday?
4
            Α.
                  They were both yesterday, yes.
                   So you had a long day yesterday
            Ο.
     in this case to prepare for today's
     deposition?
           Δ
                  Well, that only accounts for
     about six hours in total.
9
10
                  Would you open your report on
11
     damages to -- which is Exhibit Number 1,
12
     giving you back the original, and would you
13
     turn to Appendix 4.C-1.1?
14
           Α.
                   Okay.
15
                   Okay. I think I'm there.
16
            Ο.
                   Do you have Appendix 4.C-1.1 in
17
     front of you?
18
           Α.
                   I do, yes.
19
                  Okay. And this is titled
2.0
      "Cuyahoga ADAMHS Board damages."
21
                   Correct?
22
                   I see that, yes.
23
                   Okay. Turn your attention to
24
     line 2. There's a line that says,
     "Opioid-Related Percentage of Services."
```

```
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     material in this case or really any other
     area of economic research.
                  Since you finished your
     deposition testimony last Tuesday, did you
```

speak with any other expert who either is offering opinions in this case or who provided an expert report in this case? Since Tuesday, I don't think I've spoken with anyone else. And did you speak with any fact 11 witness in this case since your first day of 12 deposition? 13 A. No. I spoke to no fact witness 14 since last Tuesday. 15 Ο. You also mentioned that you had 16 met with Mr. Sobol, and you had a brief call 17 with Mr. Ko?

18 Α. That's right. 19 Ο. How long was your meeting with 2.0 Mr Sobol? 21 Α. It was about an hour, I would 22 sav.

23 Ο. How long was your call with 24 Mr. Ko?

25 My call with David was less

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```
Do you see that?
                  I do see that.
           Α.
                  Okay. And then it lists a
     percentage for each year from 2006
     through 2017.
                  Do you see that?
           Α.
                  I see that, too.
           Ο
                  And then there's a note for
     note 2 that says, quote, "Based on metric
9
10
     analysis in the Cutler report, see Table 3.5
11
     sub 3."
12
                  Do you see that?
13
                I also see that, yes.
                  Okay. And when you say "based
14
15
     on the metric analysis in the Cutler report,"
16
     you mean you took the percentage from Cutler
17
     report Table 3.5 sub 3 and you just put it
18
     into your calculations, correct?
19
                  MR. SOBOL: Objection.
2.0
                  THE WITNESS: Well, it's based
21
           on. It doesn't -- I would have to
22
           remind myself what 3.5.3 that Cutler
23
           did to be -- to refresh my memory
24
           about -- of what percent this is.
```

```
QUESTIONS BY MR. KEYES:
                  Well, he had a percentage in
     that table, correct?
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
                  That was titled "Opioid-Related
     Percentage of Services"?
                  MR. SOBOL: Objection. The
           document's not in front of him.
                  THE WITNESS: Yeah, I'd have to
           take another look to remind myself
           what this refers to exactly.
                  Excuse me. This shows you the
14
           source, and, you know, I would need to
15
           see the source in order to make a
16
           determination.
17
     QUESTIONS BY MR. KEYES:
18
                  Okay. Sitting here right now,
19
     do you know whether you just took the
20
     calculation -- the percentage that Professor
21
     Cutler had in that table and put it in your
22
     table or whether you did something else to
23
     his percentage?
24
                  MR. SOBOL: Objection. Asked
25
           and answered.
```

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```
or some kind of cheat sheet.
                  MR. SOBOL: I disagree with
3
            that about his entitlements or not.
           And you're not to listen to what he
            savs about what he's entitled to or
           not entitled to do.
     QUESTIONS BY MR. KEYES:
                  So sitting here today, can you
9
     tell me what you did to take the percentages
10
     that you say are in the Cutler report at
11
     Table 3.5 sub 3 to arrive at the percentages
     you list here on line 2?
12
13
                  MR. SOBOL: Objection. Asked
14
            and answered.
15
                  THE WITNESS: Well, what note 2
16
            says is it's based on the metric
17
            analysis in the Cutler report. As I'm
18
            sitting here today, I can't
19
            reconstruct where these numbers came
2.0
            from based on that analysis.
21
     QUESTIONS BY MR. KEYES:
22
                  Would it surprise --
2.3
                  MR. SOBOL: He hasn't finished
24
            his answer.
```

```
THE WITNESS: Well, this number
           is based on Professor Cutler's
           analysis, and to be able to
           reconstruct where this came from, I
           would need to look at what David
           actually reported.
     QUESTIONS BY MR. KEYES:
                  So sitting here right now, when
     you offered this opioid percentage of
     services, you can't tell me how you arrived
11
     at that number?
12
                  MR. SOBOL: Objection. Asked
13
           and answered.
14
                  THE WITNESS: This note
15
           explains the source. And I'm happy,
16
           if you have happen to have that
17
           report, that I can take a look at it
18
           and make a determination.
     OUESTIONS BY MR. KEYES:
19
```

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remind you --

20

21

22

23

24

25

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what you know without looking at a document

read Cutler's report, it may refresh or

Okay. I understand that if you

Yeah, it certainly will.

-- but I'm entitled to probe

```
OUESTIONS BY MR. KEYES:
                  Did you finish your answer?
           Ο.
3
                  I don't think I need to say
     anything more.
                  Okay. Would it surprise you if
     you just took the percentages in
     Professor Cutler's table and incorporated
     them here as line 2?
9
                  Would that surprise you?
10
                  MR. SOBOL: Objection. Asked
11
           and answered.
                  THE WITNESS: Well, I don't
12
13
           know if it would surprise me or not.
           There are aspects of Cutler's
14
15
           percentages that I did take and use
16
           directly, but I don't want to -- I
17
           don't feel like I can commit myself to
18
           doing that unless I actually refresh
19
           my memory about the Cutler report.
2.0
     QUESTIONS BY MR. KEYES:
21
                  Okay. Would you return to
22
     Appendix 4.C-2.1.
23
                  Are you there?
24
                  I'm there, yes.
                  And this is titled "Cuyahoga
```

```
Division of Children and Family Services
     Damages"?
3
           Α.
                  Yeah, I see that.
                  And do you see line 9 says,
      "Opioid-Related Percentage of Removals"?
                  I see that, yes.
                  And it then has a note 9.
     Note 9 says, "Based on metric analysis in the
     Cutler report, see Table 3.6 sub 1"?
           Α.
                  I see that.
11
                  Okay. So did you take the
           Ο.
     percentages that were in that referenced
13
     Cutler table and incorporate in this line, or
14
     did you do something additional to those
15
     percentages?
16
           Α.
                  This is the same situation for
17
     me. It's based on the metric analysis in
18
     Cutler's report, but for me to determine
     whether there -- I just kind of took them in
19
20
     a sense or whether I had to do something
21
     else, I really would need to refresh my
22
     memory about.
23
           Q.
                  So you can't explain sitting
24
     here right what, quote, "based on" means?
25
                  MR. SOBOL: Objection. Asked
```

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```
OUESTIONS BY MR. KEYES:
2
           Ο.
                   Well, let's take them one at a
3
     time
                   In your nomenclature, when you
     say "based on," is that saying "I got the
     figure from the cited source and here it is,"
     or are you saying "I got information from the
     cited source and then I did something else to
9
     arrive at the number I'm listing here"?
                  MR. SOBOL: Objection. Asked
10
11
            and answered.
12
                   THE WITNESS: When I say "based
13
            on" -- and I think this would apply
14
            here as well as it would apply if I
15
            were doing an academic paper -- it
16
            could refer to either. It doesn't say
17
            it is the number, it doesn't say
1.8
            describe the calculation, but it
19
            points the reader to where one would
2.0
            need to look in order to figure it
21
            out.
22
     QUESTIONS BY MR. KEYES:
23
                  Did you do any independent work
24
     to arrive at what you list here as the
     opioid-related percentage of removals?
```

```
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            and answered.
                   THE WITNESS: I can explain
            what "based on" means. You know, it's
            a typical form of academic citation
            that if you use something, you make a
            reference to the source of that thing
            without going through necessarily all
            the manipulations that led to that
           number.
10
     QUESTIONS BY MR. KEYES:
11
                  You say it's a typical form of
12
     academic citation.
13
                  When you take a figure from
14
     another source and you incorporate that into
15
     your work, do you cite the source, or do you
16
     sav "based on" the source --
17
                  MR. SOBOL: Objection.
18
     QUESTIONS BY MR. KEYES:
19
           Ο.
                  -- as a matter of your general
20
     practice?
21
                  MR. SOBOL: Objection.
22
                  THE WITNESS: If I understand
23
           your question, you're asking about an
           academic article that wouldn't be
24
```

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25

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necessarily part of a litigation.

```
MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: Well I think
           the -- so we're -- are we -- Table
           4.C-2.1 is what we're talking about?
     OUESTIONS BY MR. KEYES:
                  We're still on
     Appendix 4.C-2.1, line 9, where you list
9
     percentages for each year for, quote,
10
     opioid-related percentage of removals.
11
                  Did you do any independent work
12
     to arrive at those figures?
13
                  MR. SOBOL: Objection. Asked
14
           and answered again.
15
                  THE WITNESS: Well, these are
16
           based on Professor Cutler's report, so
17
           they would derive from Professor
18
           Cutler's work, not derive from my own.
19
     QUESTIONS BY MR. KEYES:
2.0
                  So is that to say, no, I did
21
     not do any independent work?
22
                  MR. SOBOL: Objection.
23
     QUESTIONS BY MR. KEYES:
24
                  I'm trying to understand what
     vou did. Professor McGuire.
```

```
So when you list opioid-related
     percentage of removals and you give a
3
     percentage for each year, I want to know:
     Did you just take that from Professor Cutler,
     or did you do some work yourself to arrive at
     those percentages?
7
                  MR. SOBOL: Objection. I
            instruct you not to answer.
9
                  MR. KEYES: Really. On what
           basis?
11
                  MR. SOBOL: Move on.
12
     QUESTIONS BY MR. KEYES:
13
                  Are you refusing to answer the
14
     question of whether you did any independent
15
     work to arrive at line 9 on this chart?
                  I'm following directions.
16
            Δ
17
            Ο.
                  Okay. Would you turn to
     Appendix 4.C-3.1?
18
19
           Α.
                  Okav.
2.0
                  Are you there?
            Ω
21
            Α.
                  I am.
22
                  And this is titled "Cuvahoga
            Ω
23
     Office of Prosecutor Damages"?
                  I see that.
24
           Α.
25
                  And line 10 says,
            Ο.
```

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```
and answered.
                  MR. KEYES: No, I haven't asked
            him that. This is a different line.
                   MR. SOBOL: No, you have.
                   THE WITNESS: Well, as note 10
            says, this is based on the analysis in
            Professor Cutler's report.
                   To be able to reconstruct it.
9
            I'd have to go back and see what David
10
           had done.
11
     QUESTIONS BY MR. KEYES:
                  Okay. Would you turn to
12
            Q.
13
     Appendix 4.C-4.1.
14
                   Are you there?
15
            Α.
                  I'm there, yes.
16
                  And this is titled "Cuyahoga
17
     Office of Public Defender Damages."
18
                   Correct?
19
            Α.
                   Yes, it is.
2.0
            Ο.
                   Do you see line 9?
21
                   I see line 9.
22
                   It's titled "Opioid-Related
23
     Percentage of Charges."
24
                   Yes, it is.
                   And it lists percentages for
```

```
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      "Opioid-Related Percentage of Charges"?
                  I see that, yes.
                  And you list a percentage for
     each year from 2006 to 2017, correct?
           Α.
                  Yes, I see that.
                   And line 10 has a cite which
      says, "Based on metric analysis in the Cutler
     report, see Table 3.4 sub 3."
                  Do you see that?
10
           Α.
                  I do, yes.
                  Okay. Did you just take the
11
12
     percentages that Professor Cutler had
13
     calculated and incorporate them here, or did
14
     you do something to those percentages?
15
                  I would have to answer in the
           Α.
16
     same way that I've answered your previous
17
     questions about the previous two tables. In
18
     order to be sure, I would like to -- I would
     need to refresh myself about what David's
19
20
     Table 3.4.3 consisted of.
21
           Q.
                  Did you do any independent work
22
     to determine the, quote, "opioid-related
```

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each of those years?

23

24

25

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percentage of charges" that you list here for

MR. SOBOL: Objection. Asked

```
each year from 2006 to 2017?
           Α.
                  Yes, it does.
3
                  Okay. And this lists as its
     cite, based on metric analysis in the Cutler
     report, "see Table 3.4 sub 3."
                  Do you see that?
           Α.
                  Yes, I see that.
                  Did you take the percentages
           Ω
9
     from that cited table that had been
10
     calculated by Professor Cutler and
11
     incorporate them into your line 9 here, or
12
     did you do something else to those
13
     percentages?
14
                  I have to answer this in the
15
     same way I would answer the questions about
     your previous three tables. It's based on
16
17
     the analysis in the Cutler report, and in
     order to reconstruct these numbers, I would
18
19
     need to refresh myself about what David's
2.0
     report contained.
21
                  Did you do any independent work
22
     to arrive at the figures that you list here
23
     as, quote, "opioid-related percentage of
24
     charges"?
25
                  MR. SOBOL: Objection. Asked
```

```
and answered.
                   THE WITNESS: Well, I don't
            really have anything to add to what I
            answered, you know, 30 seconds ago.
            It's based on Cutler's report, and I'd
            need to see that in order to
            reconstruct how -- where these numbers
            came from.
     OUESTIONS BY MR. KEYES:
            ο.
                   Would you turn to
11
     Appendix 4.C-5.1?
12
            Α.
                   Okay. I'm there.
13
                   It's titled "Cuyahoga Court of
            ο.
     Common Pleas Damages"?
14
15
           Α.
                   Yes, it is.
                   If you turn to line, it says,
16
            Ο.
17
      "Opioid-Related Percentage of Adult Charges."
18
                   Do you see that?
19
           Α.
                   Yes.
2.0
                   And it lists percentages for
            Ω
21
     each year from 2006 to 2017 --
22
           Δ
                   Yes, it does
23
                  -- correct?
                  And it says that this is "based
24
     on metric analysis in the Cutler report, see
```

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```
to remind myself what David did in
     Table 3.4.6.
3
                  Did vou do anv independent work
     to arrive at the figures that you list here
     as, quote, "Opioid-Related Percentage of
6
     Adult Charges"?
7
                   MR. SOBOL: Objection. Asked
            and answered
                   THE WITNESS: Well, I don't
10
            really have anything to add to my
11
            previous answer, that this is based on
12
            analysis that David did, and I'd need
13
            to remind myself about what that
14
            analysis was and what was contained in
15
            the table in order to tell you where
16
            these numbers came from.
17
     QUESTIONS BY MR. KEYES:
18
            Q.
                   Would you turn to
19
     Appendix 4.C-6.1?
2.0
            Α.
                  I'm there.
21
                   Do you see line 9 says,
22
      "Opioid-Related Percentage of Juvenile
23
     Cases"?
24
                  I see that yes.
                  And it lists a percentage for
```

```
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     Table 3.4 sub 6," correct?
                   MR. SOBOL: Is there a
            footnote?
                   You said, "it says." Was there
            a footnote, or did the table say that?
                   MR. KEYES: The footnote 10
            says, "Based on metric analysis in the
            Cutler report, see Table 3.4 sub 6."
     OUESTIONS BY MR. KEYES:
                  Do you see that?
11
                  I see that.
           Α.
12
                  Okay. Did you take the
13
     percentages that Professor Cutler listed in
14
     that reference table and incorporate them
15
     into your line 10, or did you do something
16
     additional to those percentages before you
17
     included them?
18
           Α.
                  Well, I have to answer this
19
     question in the same way I've answered the
20
     question about the previous three tables.
21
                  The note notes that this is
```

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22

23

24

25

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based on the metric analysis conducted in the

Cutler report, and to refresh myself about

what was done there and where these -- and how to reconstruct these. I'd need to be able

```
each year from 2006 to 2017?
           Α.
                  Yes, it does.
3
                  And it says in a footnote,
     "Based on metric analysis in the Cutler
     report, see Table 3.7 sub 1."
           Δ
                  I see that, too.
                  Okay. Did you take the
     percentages that Professor Cutler had
9
     reported in the reference table and include
10
     them here on your line 9, or did you do
11
     something else to those percentages before
     you included them here?
12
13
                  I knew you were going to ask
14
     that. The note explains that this is based
15
     on the analysis in the Cutler report, and I
16
     have to answer the same way I've answered
17
     about the previous four tables you've asked
18
     about
19
                  In order to reconstruct these
2.0
     numbers, I'd need to remind myself about what
21
     David did in the table referenced here.
22
                  Did you do any independent work
23
     to arrive at the percentages you list here
24
     as, quote, "Opioid-Related Percentage of
     Juvenile Cases"?
```

```
MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: I don't have
           anything to add to my previous answer
           to this. It's based on the Cutler
           analysis, and I'd need to see that
           again in order to remind myself about
           how it was done.
     OUESTIONS BY MR. KEYES:
                  Would you turn to
11
     Appendix 4.C-7.1?
           Α.
                  Okay. I'm there.
13
                  It's titled "Cuyahoga Sheriff's
           ο.
     Office Damages"?
14
15
           Α.
                  T see that.
                  Would you turn to line 10,
16
17
      "Opioid-Related Percentage of Charges"?
18
           Α.
                  I see that.
19
           Ο.
                  Lists a percentage for each
20
     year from 2006 to 2017?
21
           Α.
                  I see that.
22
                  It has a footnote that says,
23
     "Based on metric analysis in the Cutler
24
     report, see Table 3.4 sub 3"?
25
           Δ
                 I see that, too.
```

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```
numbers came from.
     QUESTIONS BY MR. KEYES:
3
                  Would you turn to
     Appendix 4.C-8.1?
           Α.
                  Okav. I'm there.
                  This is Cuyahoga County Jail
     Damages, correct?
           Δ
                  I see that.
9
            Ο.
                  Line 9 reports, "Opioid-Related
10
     Percentage of Adult Charges"?
11
            Α.
                  I see that.
12
            Q.
                  And it lists a percentage for
13
     each year from 2006 to 2017?
14
           Α.
                  Yes, it does.
15
                  And it has a footnote that
16
     says, "Based on metric analysis in the Cutler
17
     report, see Table 3.4 sub 6"?
18
           Α.
                 I see that, too.
19
                  Okay. Did you simply take the
2.0
     percentages that Professor Cutler had arrived
21
     at and reported in the reference table and
22
     include them here on line 9, or did you do
23
     something to those percentages before you
24
     listed them here?
                  Well, I have to give the same
```

```
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                   Did you take the percentages
      that Professor Cutler arrived at and reported
      in the reference table and include them here,
     or did you do anything to those percentages
     before you listed them here?
                   Same answer?
                  Well, I have to answer this in
     the same way I've answered about the previous
     five tables you've asked about now.
                   This is based on analysis that
11
     David did, and I need to refresh myself about
     that report in order to see where these
13
     numbers came from.
14
           Ο.
                  Did you do any independent work
15
     to arrive at the figures you list here on
     line 10 as, quote, "Opioid-Related Percentage
17
     of Charges"?
18
                  MR. SOBOL: Objection. Asked
19
           and answered.
2.0
                  THE WITNESS: I don't really
21
           have anything to add to my previous
22
           answer to this question. It's based
23
           on the analysis in the Cutler report,
```

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24

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and I'd need to take another look at

that in order to determine where these

```
answer to this question as to the previous
     six tables you've asked about.
3
                  The note indicates it's based
     on the metric analysis in the Cutler report,
     and in order to determine the source of these
     numbers, I'd need to go back and remind
     myself about what David's Table 3.4.6 did.
                  Did you do any independent work
9
     to arrive at the figures that you list here
     on line 9 as, quote, "Opioid-Related
10
11
     Percentage of Adult Charges"?
12
                  MR. SOBOL: Objection. Asked
13
           and answered.
                  THE WITNESS: Well, I don't
14
15
           have anything to add to my previous
16
           answer on this.
17
                  They're based on the analysis
18
           in the Cutler report, and I'd need to
19
           go back and see what was done there to
2.0
           remind myself how these numbers were
21
           constructed.
22
     QUESTIONS BY MR. KEYES:
23
                  Would you turn to
24
     Appendix 4.C-9.1?
                  Are you there?
```

```
I'm there, yes.
                   This is titled, "Cuyahoga
     Office of Medical Examiner Damages."
                   Correct?
            Α.
                  I see that.
                   Line 9 says, "Opioid-Related
     Percentage of Autopsies"?
            Α.
                   I see that.
            ο.
                  It lists a percentage for each
     year from 2006 to 2017?
11
           Α.
                  Yes, it does.
12
                  And it has a note that says,
13
      "Based on metric analysis in the Cutler
14
     report, see Table 3.8 sub 1"?
15
           Α.
                  I see that.
16
                  Did you simply take the
17
     percentages that Professor Cutler arrived at
18
     and reported in the reference table and
     include them here on line 9, or did you do
19
20
     something to those percentages?
21
                  Well, I have to give the same
22
     answer here that I've given to a similar
23
     question in the previous seven tables, which
24
     is that as the note indicates, it's based on
     the analysis in the Cutler report. And in
```

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```
1
                   Which?
     QUESTIONS BY MR. KEYES:
3
                  That every time you list an
     opioid-related percentage of something, where
     it lists in a footnote that it's based on the
     metric analysis in the Cutler report, see
     table such-and-such in the Cutler report,
     you're going to tell me you can't tell me
     whether you just took Professor Cutler's
10
     numbers or whether you did something to them
11
     before you included them in your appendix?
12
                   MR. SOBOL: Objection.
13
     QUESTIONS BY MR. KEYES:
14
                   Is it fair to say you're going
15
     to give me the same answer for each one of
16
     those?
17
                   MR. SOBOL: Objection.
1.8
                   Answer it, if you can.
19
                   THE WITNESS: It's a little
2.0
            hard to anticipate how I would answer
21
            questions that haven't been asked yet.
                   But there's -- I see a pattern
2.3
            here in what I'm able to tell you
24
            about -- this was all Cuyahoga? Yeah,
```

```
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     order to remind myself about the derivation
     of these numbers. I would need to take
     another look at Table 3.8.1.
                  Did you do any independent work
     to arrive at the figures that are listed on
     line 9 as, quote, "Opioid-Related Percentage
     of Autopsies"?
                   MR. SOBOL: Objection. Asked
           and answered.
10
                   THE WITNESS: I don't really
11
           have anything to add to my previous
            answer to this question.
                  These numbers are based on the
14
            analysis in the Cutler report, and I'd
15
           need to remind myself about that
16
           before I could give you a precise
17
            answer about where these numbers came
18
            from.
     OUESTIONS BY MR. KEYES:
19
20
                  Now, if I go through the same
21
     exercise with your appendices that are about
22
     affected divisions for Summit County as
23
     opposed to Cuyahoga County, will your answers
```

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be the same?

24

25

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MR. SOBOL: Objection.

```
You'll have to make an
           inference, if you would like.
3
     OUESTIONS BY MR. KEYES:
                 So in the appendices we've
     reviewed so far for Cuyahoga County, can you
     tell me anything about the opioid-related
     percentage of services that you listed beyond
     the fact that it's somehow based on what
     Professor Cutler did?
10
                  MR. SOBOL: Objection.
11
                  Is that a yes or a no question?
                  MR. KEYES: Yeah.
12
13
                  THE WITNESS: Would you mind
           reading it back to me? I'm sorry.
14
15
     OUESTIONS BY MR KEYES.
16
                  Sure.
17
                  We've reviewed a series of
     appendices for the different affected
18
19
     divisions for Cuyahoga County.
2.0
                  Can you tell me anything about
21
     the, quote, "Opioid-Related Percentage of
22
     Services" that you listed in the appendix
23
     beyond the fact that it's somehow based on
24
     what Professor Cutler did?
                  MR. SOBOL: Objection. Form.
```

```
THE WITNESS: Yes.
     QUESTIONS BY MR. KEYES:
3
                  What can you tell me?
                  Well, I can tell you a number
     of things.
                  Which table would you like me
     to talk about?
           Ο.
                  Well, let's go back to the
     first one. There's go back to
     Appendix 4.C-1.1.
11
                  Are you there?
           Α.
                  I'm -- yes, I'm at 4.C-4.1
13
     {sic}, yes.
14
           Ο.
                  Okay. Line 2 says,
15
      "Opioid-Related Percentage of Services."
                  Wait a second. That's not
16
17
     line 2 here. I'm -- 4.C-4.1? Or 1 -- I'm
18
     sorry.
                  No. 4.C-1.1.
19
           Ο.
20
                  Do you have that in front of
21
     you?
22
                  I do, yeah.
           Α.
23
                  Okay. And line 2 says,
           Q.
24
     "Opioid-Related Percentage of Services."
25
                  Correct?
```

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```
Professor Cutler?
                  Well, this sounds like the
3
     first set of questions you asked. And what I
     can tell you, based on note 2 here, is that
     this is based on the metrics in Cutler's
     report. And in order to be more specific
     about that, I'd have to tell you -- I'd have
     to take a look at what David did and remind
     myself.
9
10
           Q.
                  Would you turn to
11
     Appendix 4.D-1.1?
12
                   Are you there?
13
            Α.
                   Yes.
14
            Ο.
                   This says the "Summit ADM Board
15
     Damages"?
16
           Α.
                   Yes.
17
            Ο.
                   Line 2 says, "Opioid-Related
18
     Percentage of Services"?
19
            Α.
                   I see that.
2.0
                   It has a percentage for each
21
     year from 2006 to 2017?
22
                   Yes, it does.
23
                  And it, like every other chart,
24
     says, "based on metric analysis in the Cutler
```

```
Highly Confidential - Subject to Further Confidentiality Review
                   Yes, it does.
                   Okay. Can you tell me anything
     about how that was arrived at, other than it
      is somehow based on what Professor Cutler
                  MR. SOBOL: And without putting
7
           Professor Cutler's report in front of
           him, correct? Correct?
                  MR. KEYES: Correct.
                  THE WITNESS: Well, I can tell
11
           you some things about this.
                   I understand what the task was
            that Professor Cutler undertook, which
14
            was to determine a percent of the
15
           ADAMHS -- this is ADAMHS Board? --
            yeah, the ADAMHS Board activities that
16
17
            were attributable to opioids.
18
                  And that involved a two-step
19
           process: determining how much of
20
            those services were drug-related and
21
            then how much of the drug-related were
22
            opioid-related.
```

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OUESTIONS BY MR. KEYES:

23

24

25

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yourself beyond take the percentages from

And did you do anything

```
This time it references Cutler
     report Table 3.5 sub 6?
3
                  Yeah, I see that.
                  MR. SOBOL: Which other chart?
                  Objection to the form. You
           said "like every other chart."
                  Which other chart?
                  MR. KEYES: Like every other
9
           chart we've reviewed in the deposition
10
           today.
11
     QUESTIONS BY MR. KEYES:
12
                  Did you do any independent work
13
     to arrive at the opioid-related percentage of
14
     services that you list on line 2?
15
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, my answer
16
17
           here is going to be the same as it was
18
           for Cuyahoga in this case: that as
19
           the note indicates, it's based on the
2.0
           metric analysis in the Cutler report,
21
           and in order to determine where these
22
           numbers came from more precisely, I'd
23
           need to be able to remind myself about
24
           what that -- what happened in that
           table from David's report.
```

```
QUESTIONS BY MR. KEYES:
                  Would you turn to
     Appendix 4.D-2.1?
           Α.
                  Okay. I'm there.
           Q.
                  Do you see line 9 says,
      "Opioid-Related Percentage of Custodies"?
                  I see that, yes.
                  And it lists a percentage for
     each year from 2006 to 2017?
                  Yes, it does.
11
                  And it has a footnote that also
     says, "Based on metric analysis in the Cutler
13
     report," and it references Cutler report
     Table 3.6 sub 2?
14
15
           Α.
                  I see that, yes.
16
                  Did you do any independent work
17
     to arrive at the figures listed here on
     line 9 as, quote, "Opioid-Related Percentage
18
     of Custodies"?
19
2.0
                  I have to answer this in the
           Δ
21
     same way that I've answered this series of
22
     questions about other appendix tables. And
23
     what I can tell on the basis of note 9, which
24
     I knew, is that it's based on the analysis in
25
     the Cutler report.
```

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```
on line 10 as being, quote, "Opioid-Related
     Percentage of Crimes"?
3
                  I have to answer this in the
     same way I've answered the series of previous
     questions about different appendix tables,
     which is that as the note indicates, it's
     based on the metric analysis in the Cutler
     report. And in order to determine more
     precisely where these figures came from, I
10
     would need to go back and remind myself about
11
     what happened in Table 3.4.9.
12
           Q.
                  Could you turn to
13
     Appendix 4.D-4.1?
14
           Α.
                  Okay. I'm there.
15
            ο.
                  Okay. Line -- this is titled
16
      "Summit Court of Common Pleas Damages"?
17
                  That I see.
18
            Q.
                  Line 10 says, "Opioid-Related
19
     Percentage of Crimes"?
2.0
           Α.
                  I see that.
21
                  You going to tell me the same
22
     thing about how those percentages were
23
     arrived at?
```

```
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                   In order to figure out more
     precisely what these percentages correspond
     to, I'd need to go back and see -- remind
     myself about what happened in Cutler 3.6.2.
                   Would you turn to
     Appendix 4.D-3.1?
           Δ
                  Okay. I'm there.
            Ο.
                  Are you there?
           Α.
                  I'm there.
                  This is titled "Summit
11
     Prosecutor Damages."
                  Correct?
13
           Α.
                  I see that, ves.
14
           Ο.
                  Line 10 says, "Opioid-Related
15
     Percentage of Crimes"?
16
           Α.
                  I see that.
17
           Ο.
                  It lists a percentage for each
     year from 2006 to 2017?
18
19
           A.
                  Yes, I see that.
2.0
                  And it has a note that says,
21
     "This is based on the metric analysis in the
22
     Cutler report, see Table 3.4 sub 9."
23
           A.
                 I see that, too.
```

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24

25

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to arrive at the figures that you list here

Did you do any independent work

```
is constructed in the same way. I'm
           not sure what you're asking.
3
     OUESTIONS BY MR KEYES.
                 I'm asking, is this also
     based -- somehow based on what Professor
     Cutler did?
                  Well, as the note says, yes,
     this is based on the metric analysis in the
9
     Cutler report.
10
                  Did you do any independent work
11
     to arrive at the figures listed on line 10
12
     as, quote, "Opioid-Related Percentage of
13
     Crimes"?
14
                  Well, I have to answer this in
15
     the same way that I've answered questions
16
     about a series of other appendices that we've
17
     talked about this morning. And the note
18
     indicates it's based on the metric analysis
19
     in the Cutler report, and in order to
2.0
     determine more precisely where these
21
     particular percentages came from, I'd need to
22
     go back and remind myself what happened in
23
     Table 3.4.9.
24
           Q.
                  Okay. Would you turn to
     Appendix 4.D-5.1?
```

MR. SOBOL: Objection.

THE WITNESS: Well, the table

24

```
Okay. I'm there.
                   This is Summit Juvenile Court
3
     Damages?
                   I see that.
            Q.
                  Do you see line 9 says,
      "Opioid-Related Percentage of Juvenile
     Cases"?
           Α.
                   I see that.
            Q.
                  And it again lists a percentage
     for each year from 2006 to 2017?
11
           Α.
                  I see that.
                  And it also, like every other
     chart that we've reviewed, says, "Based on
13
14
     metric analysis in the Cutler report"?
15
           Α.
                  T see.
                   And this time it references
16
17
     Table 3.7 sub 2?
18
           Α.
                  I see that.
19
            Ο.
                  Did you do any independent work
20
     to arrive at the percentages you list here on
21
     line 9 as, quote, "Opioid-Related Percentage
22
     of Juveniles Cases"?
23
           Α.
                  Well, I have to answer this in
24
     the same way that I've answered questions
25
     about a series of other tables you've asked
```

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```
to arrive at the figures listed on line 10
     as, quote, "Opioid-Related Percentage of
3
     Crimes"?
           Α.
                   Well, I have to answer this in
     the same way I've answered questions about a
     series of other tables we've talked about
7
     this morning.
                  As the note indicates, my work
9
     is based on the metrics in the Cutler report,
10
     and in order to determine more precisely
11
     where these percentages came from, I'd need
     to be able to review what happened in Cutler
12
13
     3.4.9.
14
           Q.
                   Would you turn to
15
     Appendix 4.D-7.1?
                  Okay. I'm there.
16
           Α.
17
                  Do you see that it's titled
18
      "Summit County Jail Damages"?
19
            Α.
                   I see that.
2.0
                   And you have line 9,
21
      "Opioid-Related Percentage of Prisoners"?
22
                  I see that.
23
                  It lists a percentage for each
24
     year from 2006 to 2017?
                  I see that, too.
```

```
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     about this morning. And as the note
     indicates, it's based on the metrics in the
     Cutler report, and in order to determine more
     precisely where these numbers came from, I'd
     need to remind myself about what happened in
     Cutler 3.7.2.
           Q.
                  Would you turn to
     Appendix 4.D-6.1?
           Α.
                  Okay. I'm there.
                   This is Summit Sheriff's Office
11
     Damages, correct?
12
           Α.
                  Yes.
13
                  Line 10 says, "Opioid-Related
           Ο.
14
     Percentage of Crimes"?
15
           Α.
                  I see that.
                  Lists a percentage for each
16
           Ο.
17
     year from 2006 to 2017?
18
           Α.
                  I see that.
19
                  And it, like every other chart,
```

Ο. Did you do any independent work Golkow Litigation Services

correct? A.

20

21

22

23

24

25

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references that it's based on the metric

Yes, it does.

analysis in the Cutler report, and it says,

"See Table 3.4 sub 9 in the Cutler report,"

```
And it also references in
     footnote 9 that it's based on the metric
     analysis in the Cutler report, and it says,
     "see Table 3.4 sub 12"?
           Α.
                  I see that.
                  Okay. Did you do any
     independent work to arrive at the percentages
     that are listed on line 9 as, quote,
9
      "Opioid-Related Percentage of Prisoners"?
10
                  MR. SOBOL: Objection.
11
                  THE WITNESS: Well, I have to
12
            answer this in the same way that I've
13
            answered questions about previous
14
            tables.
15
                  The note indicates that line 9
16
            is based on the metric analysis in the
17
            Cutler report and makes a reference to
18
            a particular table there. And in
19
            order for me to reconstruct where
2.0
            these percentages came from, I'd need
21
            to go back and take a look at the
22
            table referred to in note 9.
23
     QUESTIONS BY MR. KEYES:
24
                  Please turn to
     Appendix 4.D-8.1.
```

```
Okay.
                  This is titled "Summit
     Alternative Corrections Damages"?
                  I see that.
            Ο.
                  Line 5 says, "Opioid-Related
     Percentage of Prisoners"?
                  I see that.
                  It has a percentage for each
     year from 2006 to 2017?
            Δ
                  Yes, it does.
11
                  And it also has a footnote that
            Ο.
     references being based on the metric analysis
13
     in the Cutler report: "See Table 3.4 sub 12
14
     of the Cutler report"?
15
           Α.
                  I see that, too.
16
                  Did vou do anv independent work
17
     to arrive at the percentages that are listed
18
     on line 5 as, quote, "Opioid-Related
19
     Percentage of Prisoners"?
20
                  MR. SOBOL: Objection.
21
                  THE WITNESS: Well, I have to
22
           answer that in the same way that I've
23
           answered questions about a series of
24
           other tables we've talked about this
25
           morning.
```

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```
Ο.
                   Did you do any independent work
     to arrive at the figures that you list here
     as being, quote, "the opioid-related
3
     percentage of crimes"?
                   Well. I have to answer this in
     the same way I've answered questions about a
     series of other tables we've talked about
     this morning
                   And as the note indicates, it's
9
10
     based on the metric analysis in the Cutler
11
     report and references a particular table.
12
     And for me to be able to reconstruct these
13
     percentages, I'd need to go back and remind
14
     myself what happened in Table 3.4.9.
15
           Ο.
                  Would you turn to
16
     Appendix 4.D-10.1?
17
            Α.
                   Okay.
18
            Q.
                   This is titled "Summit Medical
19
     Examiner Damages."
2.0
                   Correct?
21
                   I see that.
22
                   Line 9 says, "Opioid-Related
23
     Percentage Autopsies"?
24
                   I see that, too.
```

It lists a percentage for each

```
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```

```
And as the note says, these
            percentages are based on the metric
            analysis in the Cutler report, and in
           order to figure out more precisely
            where these numbers come from, I'd
            need to be able to remind myself about
           what happened in Table 3.4.12.
     QUESTIONS BY MR. KEYES:
           Q.
                  Could you turn to
10
     Appendix 4.D-9.1?
11
                  I'm there.
           Α.
                  This is titled "Summit Adult
            Ο.
13
     Probation Damages"?
14
                  I see that.
15
                  Line 10 says, "Opioid-Related
            Ο.
     Percentage of Crimes"?
16
17
           Α.
                  T see that.
18
                  It lists a percentage for each
           Ο.
     vear from 2006 to 2017?
19
20
                  Yes, it does.
           Δ
21
           Ο.
                  And it, like every other chart,
22
     has a footnote that says, "Based on metric
23
     analysis in the Cutler report. See Table 3.4
24
     sub 9 of the Cutler report," correct?
25
           Δ
                 T see that
```

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```
year from 2006 to 2017?
                  Yes, it does.
3
                  And it references in a footnote
     that it's "Based on the metric analysis in
     the Cutler report. See Table 3.8 sub 2 of
6
     the Cutler report."
                  Correct?
           Δ
                 I see that.
9
                  Did you do any independent work
     to arrive at the percentages that you list on
10
11
     line 9 as being "Opioid-Related Percentage of
12
     Autopsies"?
13
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, I have to
14
15
           answer this in the same way I've
16
           answered questions about a series of
17
           other tables we've talked about this
18
           morning.
19
                  And as the note indicates, the
2.0
           percentages here are based on the
21
           analysis in a particular place in the
22
           Cutler report, and in order to
23
           reconstruct my numbers, I'd need to
24
           remind myself about what happened in
           Cutler 3.8.2.
```

```
QUESTIONS BY MR. KEYES:
                  Earlier today you said you
     talked to Ms. Kaminski at Compass Lexecon to
     remind you about certain things you had done
     to calculate crime statistics or the
     prevalence of OUD.
7
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
                  Would you also talk to
     Ms. Kaminski to remind you how you arrived at
11
     these various percentages that we've covered
12
     in these various charts?
                  MR. SOBOL: Objection. Form.
14
           Asked and answered. Compound.
15
                  THE WITNESS: There was a verb
           in there I didn't hear.
16
17
                  Was it could, would or did?
18
     OUESTIONS BY MR. KEYES:
19
           Ο.
                  Would.
2.0
                  Would I talk to her?
           Δ
                  MR. SOBOL: Why don't we get a
21
22
           fresh question.
23
     QUESTIONS BY MR. KEYES:
24
                  Well, would you talk to
25
     Ms. Kaminski to figure out how you arrived at
```

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```
those are. From Cutler or from
           McGuire?
3
     OHESTIONS BY MR KEYES.
4
                 You can answer.
                  MR. SOBOL: Well, I don't
           understand the question.
                  MR. KEYES: Then you can
           object. You did. Now he can answer.
                  MR. SOBOL: If he can.
10
                  THE WITNESS: Well, I have to
11
           say it depends.
     QUESTIONS BY MR. KEYES:
12
13
                  On what?
14
                  On what exactly you're talking
15
     about in terms of what I'm refreshing myself
16
     about.
17
           Q.
                  Well, I've just gone through a
18
     bunch of charts, some for Cuyahoga County,
19
     some for Summit County, and every single
2.0
     chart has a line that says "opioid-related
21
     percentage of " something.
22
                  And every single time there's a
23
     footnote, and every single time that footnote
24
     says it's based on Professor Cutler's
     metrics, and every single time it references
```

```
Highly Confidential - Subject to Further Confidentiality Review
      the percentages that you list here on the
```

```
lines that we've just spent the last
     30 minutes covering?
                  MR. SOBOL: Objection.
                  THE WITNESS: Would I? That's
           conditional.
     QUESTIONS BY MR. KEYES:
                  If you wanted to know the
     answer, in that condition, would you go to
     Ms. Kaminski?
11
                  MR. SOBOL: Objection.
                  THE WITNESS: Okay. So what's
13
           the question?
14
     QUESTIONS BY MR. KEYES:
15
                  If you wanted to know where
     these percentages came from and what you did
16
17
     with these percentages, would you go to
     Ms. Kaminski to remind you what you did?
18
19
                  MR. SOBOL: Objection.
2.0
                  THE WITNESS: No.
21
                  MR. SOBOL: Which percentages?
22
                  MR. KEYES: All of the
```

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morning.

23

24

25

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percentages we've talked about this

MR. SOBOL: I don't know which

```
a chart or a table from Professor Cutler.
                  And every single time you gave
3
     me your answer: I'll have to give the same
     answer that I gave the last time, which is,
     I'd have to go look at Professor Cutler's
     report to figure out where these percentages
7
     came from.
                  And every time I asked you,
9
     "Did you do any independent work?" you said,
10
     "I'd have to give you the same answer: 'I
11
     don't know.'"
12
           Α.
                 I'm laughing with you.
13
                  Okay. So you could go look at
14
     Professor Cutler's report, but I'm asking you
15
     questions about your report.
16
           Α.
                  All right.
17
                  And your report says nothing
18
     other than "I am doing something based on
19
     Cutler's metrics."
2.0
                  My question is: If you want to
21
     figure out what you did for this report to
22
     get these percentages, who would you go to to
23
     get that answer?
24
                   MR. SOBOL: Objection.
```

```
QUESTIONS BY MR. KEYES:
                  Would it be Ms. Kaminski or
     someone else at Compass Lexecon?
                  MR. SOBOL: Objection.
                  Is there some part of the
           question that you'd like the witness
           to agree with your speech about, or do
           you want him to answer your questions
           that you put?
                  THE WITNESS: Well, it depends
11
           on what the particular percentage is.
12
     QUESTIONS BY MR. KEYES:
13
                  So would you go to Ms. Kaminski
14
     for some percentages but someone else at
15
     Compass Lexecon for other percentages?
16
                  MR. SOBOL: Objection.
17
                  If you can answer it, fine. I
18
           don't know what he's talking about.
19
           If you can figure it out --
2.0
                  MR. KEYES: Enough of the
           speaking objections. If he doesn't
21
22
           know what I'm talking about, he's
23
           perfectly capable of saying that.
     QUESTIONS BY MR. KEYES:
24
25
                 I need your testimony, not what
```

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```
OUESTIONS BY MR. KEYES:
                  Last week you described your
3
     approach for identifying so-called affected
     costs?
           Α.
                  And you attempted to articulate
     your approach for identifying affected costs?
           Δ
9
           Ο.
                  And a number of times you cited
10
     the police as an example of how you would go
11
     about identifying an affected cost,
     identifying whether it was fixed or variable,
12
13
     identifying if it was overhead.
14
                  Do you recall that?
15
           Α.
                  I do, yes.
16
                  Okay. So can you identify for
17
     me what the responsibilities of the Cuyahoga
18
     County Police Department are?
19
                  In total? All the
2.0
     responsibilities of the Cuyahoga County
21
     Police Department?
22
                  Well, your general
23
     understanding of the Cuyahoga County Police
24
     Department's responsibilities.
                  Okay. Well, my understanding
```

```
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     you're coached to say.
                   MR. SOBOL: Well, you can call
            me Coach Belichick, and I would be
            flattered, but that's not what I'm
                   I'm just trying to figure out
            what it is that you're asking and
            making sure that the witness
            understands it, too.
                   If you don't want to make
11
            yourself better understood, then go
12
            for it, but then we'll end up with a
13
            fairly inadequate transcript on your
14
            part.
15
                   Do you understand the question
16
            before you, Mr. Witness?
17
                   THE WITNESS: I think I can be
18
            somewhat responsive, which is to say
19
            in many cases this is something I
2.0
            would be capable of doing myself.
                   And I might need to ask some --
21
22
            at Compass Lex for some clarification.
23
            but it really depends on what
            you're -- more specifically you're
24
25
            talking about.
```

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```
is their primary responsibility is public
     safety, which involves a number of
3
     safety-related activities.
                  They're also responsible for
     traffic control, if I could use kind of a
     layperson's word about that. And some
     community education, community relations.
           Ο
                  Did you talk to anyone who
9
     works for the Cuyahoga County Police
10
     Department?
11
           Α.
                  I don't recall.
12
           Q.
                  Did you read the deposition
13
     testimony of anyone who works for the
14
     Cuyahoga County Police Department?
15
                  I may have. I don't recall.
16
                  Do you have an understanding as
17
     to what the responsibilities of the Summit
18
     County Police Department are?
19
           A.
                  Isn't it sheriff?
2.0
                  Is there a police department in
21
     Summit County?
22
                  I don't remember the title. I
23
     thought it might have been sheriff, but...
24
                  Okay. So for Summit County you
     think there's a sheriff?
```

```
I'm -- I guess I'm asking, but
     I know I can't do that, so...
3
                  I guess if I can -- see if I
     understand where the question is. The
     question is, did I speak to someone in Summit
     County law enforcement?
7
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
9
                  No.
                  My guestion was: Did you
11
     speak -- do you have an understanding of what
12
     the responsibilities are of a Summit County
13
     Police Department?
14
           Α.
                  Responsibilities. The
15
     responsibilities would be very similar.
16
                  Did you talk to anyone who
17
     works for a Summit County Police Department?
18
                  I don't recall.
19
                  Did you read the deposition
20
     testimony of anyone who works for a Summit
21
     County Police Department?
22
                  I may have. I don't remember.
23
                  Okay. And does Summit County
           Ο.
     have a police department?
24
25
                  They have a -- I don't remember
```

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```
law enforcement.
2
           Ο.
                  How about Summit County?
3
                  MR. SOBOL: Objection.
                  THE WITNESS: I'm not sure what
4
            you're asking.
     QUESTIONS BY MR. KEYES:
6
7
                  Do you have an understanding as
     to whether there are differences between a
     police department and a sheriff's department
10
     in Summit County?
11
                  Well, I would have to give the
     same answer I gave for Cuyahoga. I don't
12
13
     have an appreciation of the differences in,
14
     you know, authority of the police and
15
     sheriff's department.
16
                  Okay. You identified the
17
     Summit County ADM Board as an affected
18
     division, to use your terminology, correct?
19
                  Yes, that's correct.
2.0
                  Okay. So for the Summit County
21
     ADM Board, what was the opportunity cost of
22
     the opioid-related expenditures that you
23
     quantified?
24
                  MR. SOBOL: Objection.
                  Do you want him to refer to his
```

```
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      whether it's called sheriff or police
     department, but they have a function that
     would have gone under one of those two names.
                  Does Cuyahoga County have a
     police department?
           Α.
                   It's the same.
                  Okay. And do you have an
     understanding as to what the differences are
     between a police department and a sheriff's
10
     department?
11
           Α.
                  Not really, no, I don't
     understand in terms of the -- whatever the,
13
     you know, the connotations of the
14
     jurisdiction each of those departments would
15
     have.
16
                  Do you have an understanding as
17
     to whether there are differences between a
18
     police department and a sheriff's
19
     department --
20
                  MR. SOBOL: Objection to form.
21
     QUESTIONS BY MR. KEYES:
22
                  -- in Cuyahoga County?
```

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23

24

25

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# Highly Confidential - Subject to Further Confidentiality Review 1 report, or is this a memory test?

differences are between those two forms of

appreciation of the -- whatever the

As I said, I don't have an

```
MR. KEYES: I'm asking him to
           identify what the opportunity costs
           was.
                  THE WITNESS: The opportunity
           costs in economics is measured in
7
           dollars, and it's in my report.
     OHESTIONS BY MR KEYES.
9
                  What activity or activities did
10
     the Summit County ADM Board forego because it
11
     spent those dollars on opioid-related
12
     activities?
13
                  MR. SOBOL: Objection. Asked
14
           and answered.
15
                  THE WITNESS: This is something
16
           that we talked about last time in some
17
           detail, and the important thing that I
18
           need to say about this from the
19
           standpoint of an economist is the way
2.0
           opportunity cost works is that it's
21
           not necessary to identify the precise
22
           nature of the activities that were not
23
           undertaken.
24
                  And if you remember last time,
           I gave you the example of the
```

```
household that had an accident with
           their car and it cost them $75. The
           opportunity cost of those funds is
           $75. That's the economic approach to
           opportunity cost.
                   It's not necessary for me as an
           economist to say, well, they didn't go
           out to dinner one night or they, you
           know, didn't do whatever. The
           opportunity cost is $75.
11
     QUESTIONS BY MR. KEYES:
12
                  Did you identify whether Summit
13
     County ADM Board suffered any harm because it
14
     forewent an opportunity because it was
15
     spending dollars on opioid-related
     activities?
16
17
                  MR. SOBOL: Objection.
18
                  THE WITNESS: What do you mean
19
           by the board suffering harm?
20
     QUESTIONS BY MR. KEYES:
21
           Ο.
                  Well, I don't know that I can
22
     be more specific.
23
                  In your work, you identified
24
     the dollars that you said were devoted to
     opioid-related activities. You said that had
25
```

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```
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```

```
are -- which consists of people on the
           board. That's what I understand the
           board to be
                  Are you asking how they would
            be harmed?
     OHESTIONS BY MR KEYES.
7
                  No.
                   I'm asking how the Summit
9
     County ADM Board, as the affected division
10
     you identified --
11
            Α.
12
                   -- whether it suffered any harm
13
     because it forewent another activity because
14
     it was spending dollars on opioid-related
15
     services
16
                   MR. SOBOL: Objection.
17
                   THE WITNESS: Okay. Well, I am
18
            interpreting your question as an
19
            opportunity cost question, which is to
2.0
            say something had been foregone
21
            because of the funds to go into
22
            opioids, and there's a dollar metric
2.3
            of that.
24
                   And then I'm a little bit lost
            in the question. So, sorry.
```

```
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```

```
an opportunity cost.
                  I asked you what the ADM Board
     forewent, something they didn't do, because
      they were spending those dollars on
     opioid-related activities.
                  You said you don't need to look
     at that.
                  I'm asking: Did you look at
10
     whether the Summit County ADM Board suffered
11
     or incurred any harm because it forewent
      another activity because it was spending
13
     dollars on the opioid problem?
14
                  MR. SOBOL: Okay. And
15
            objection.
16
                   There was a speech that I
17
            assume that the questioner does not
18
            expect you to be buying into, but
19
            there was a question at the end of it
2.0
            which I assume the questioner was
21
            asking you to respond to.
22
                   THE WITNESS: I'm still a
23
           little confused about what you mean by
24
            the board being harmed.
25
                  The board is a board, which
```

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```
OUESTIONS BY MR. KEYES:
                  But you were talking about
3
     opportunity costs. You've already talked at
     length about opportunity costs. I'm asking
     about harm.
           Δ
                  Harm
                  Harm.
                  Did you identify any harm that
9
     the Summit County ADM Board suffered or
10
     incurred --
11
                  MR. SOBOL: Objection.
12
     OUESTIONS BY MR. KEYES:
13
                  -- because it didn't spend
14
     money on something else because it was
15
     spending those dollars on opioid-related
16
     activities?
17
                  MR. SOBOL: Objection. Asked
18
           and answered now.
19
                  THE WITNESS: Okay. So I
2.0
           understand you're not asking about
21
           opportunity costs. I'm not sure then
22
           what harm means in your question.
23
     QUESTIONS BY MR. KEYES:
24
                  So you can't -- you don't know
     what harm means; that's your testimony?
```

```
MR. SOBOL: Objection. It's
            not his testimony.
                   He doesn't know what you mean
            by it.
                   THE WITNESS: I can't answer
            until -- if you could just use another
            example or use another word or help me
            explain -- help me understand what
            harm means in the question.
10
     QUESTIONS BY MR. KEYES:
11
                  How about injury? Did the
12
     Summit County ADM Board suffer any injury
13
     because it spent money on opioid-related
14
     activities rather than the thing it gave up?
15
                   MR. SOBOL: Objection.
16
                   THE WITNESS: I'm still having
17
            a hard time here.
                   Injury is a kind of metaphor.
18
19
            You know, injury, I know what an
2.0
            injury is. I interpret you using that
21
            term as a kind of metaphor here, but
22
            I'm not sure as a metaphor for what.
23
                   I'm happy to answer the
24
            question. I'm just not sure what the
25
            direction is you're trying to get at.
```

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```
to know the answers to those
            questions.
3
     OHESTIONS BY MR KEYES.
                  Separate from whether you need
     to know, did you ask the guestion, and did
     you look into that as part of your work on
     this case?
                   MR. SOBOL: Objection.
9
                   THE WITNESS: I looked into
10
            what I needed to know in order to
11
            identify opportunity costs in a
12
            reliable -- a reliable way that's in
13
            line with economic practice in this
14
            field.
15
     OUESTIONS BY MR. KEYES:
16
                  Did you conduct any factual
17
      inquiry to determine what the Summit County
18
     ADM Board would have spent the money on in
19
     2006 if it had not spent that money on what
20
     you quantified as opioid-related work?
21
                   MR. SOBOL: Objection. Asked
22
            and answered.
2.3
                   THE WITNESS: It wasn't
24
            necessary for me to be able to
            determine a reliable estimate of
```

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```
QUESTIONS BY MR. KEYES:
                   In 2006 -- that's one of the
     years covered by your damages report,
     correct?
           Α.
                   Yes.
                   In 2006, if the Summit County
     ADM Board did not spend the dollars you
     quantified on opioid-related work, what would
      it have spent the money on?
                   MR. SOBOL: Objection.
11
                  THE WITNESS: This gets back to
12
            the discussion of opportunity costs
13
            and how, from an economist point of
14
            view, to be able to quantify in dollar
15
            terms the opportunity costs. It's not
16
            necessary for me to know what else
17
            they would have done with the money.
18
                   Just like with the household
19
            having to pay the $75 to fix their
20
            car, it's not important in assessing
21
            opportunity costs to know whether, you
22
            know, the teenager spent it, the mom
23
            would have spent it, the dad would
24
            have spent it. Those -- I don't need
25
            to know those questions. I don't need
```

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```
opportunity costs for me to know what
           the alternative -- the money would
           have been spent on alternatively.
                  Just like in the case of the
           household, an economist assesses the
           opportunity cost of spending on
           something without needing to know what
           the funds would have been devoted to
           in the absence of that cost.
     QUESTIONS BY MR. KEYES:
10
11
                  Would your answer be any
12
     different if I picked 2007 instead of 2006?
13
                  MR. SOBOL: Objection.
                  THE WITNESS: I don't see
14
15
           anything that would be different with
16
           2007, but your -- are you referring to
17
           a series of questions or a particular
18
           question?
19
     QUESTIONS BY MR. KEYES:
20
                  I'll ask you a question about
21
     2006.
22
                  You asked me a series of
23
     questions about 2006.
24
                  And now I'm saying 2007.
25
                  MR. SOBOL: Objection then.
```

```
QUESTIONS BY MR. KEYES:
                  Did you conduct any factual
     inquiry to determine what the Summit County
     ADM Board would have spent the money on in
     2007 if it had not spent that money on what
     you quantified as opioid-related work?
                  Okay. I do have to answer this
     in the same way that I referred to in the
     earlier year. In order to develop a reliable
     estimate of opportunity costs, it's not
11
     necessary for an economist to be able to
     identify what exactly the funds would have
13
     been used for. They could have been used
     for, you know, different purposes.
14
15
                  And if I ask the same question
     using 2008 instead of 2007, would your answer
16
17
     be the same?
18
                  MR. SOBOL: Objection.
                  THE WITNESS: Okay. The same
19
20
           single question --
21
     QUESTIONS BY MR. KEYES:
22
           Ω
                  Yes
23
                  -- you're referring to?
24
                  My answer would be the same for
25
     2008
```

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```
funds would have been used for in
            detail.
                   What's necessary is to know
            they would have been available to the
            board to spend on things they thought
            would be worthwhile.
     QUESTIONS BY MR. KEYES:
                  For any year between 2006 and
     2018, did you conduct any factual inquiry to
9
10
     determine what Summit County Children's
11
     Services Board would have spent the money on
12
     if it had not spent that money on what you
13
      quantified as opioid-related work?
                   MR. SOBOL: Objection.
14
15
                   THE WITNESS: Well, as in the
16
            case of the previous division we spoke
17
            about, in order to reliably estimate
1.8
            opportunity costs, which was my
19
            objective here, I did what I needed to
2.0
            do to be able to estimate that.
21
                   What was not necessary for me
            to do was to identify a hypothetical
2.3
            counterfactual in which the board --
24
            sorry, we're at Children's Family
            Services now -- in which the funds may
```

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```
And would your answer be the
      same to that question for every year between
      2006 and 2018?
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, the
            principles that I articulate in the
            question are general, and the
            methodology for opportunity costs and
            how to assess it and what an economist
           needs to know would be the same as --
11
           across time.
12
     QUESTIONS BY MR. KEYES:
13
                 For any year between 2006 and
14
     2018, did you conduct any factual inquiry to
15
     determine what the Summit County ADM Board
16
     would have spent the money on if it had not
17
      spent the money on what you quantified as
     opioid-related work?
18
                  MR. SOBOL: Objection. Asked
19
2.0
           and answered.
21
                  THE WITNESS: Okay. In order
22
            to develop a reliable estimate of
23
            opportunity costs, which was what I
24
            was trying to do here, it wasn't
25
            necessary for me to determine what the
```

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```
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```

have been spent differently.

```
And...
3
     OUESTIONS BY MR KEYES.
                  Okay. So you list a number of
     other affected divisions for Summit County.
     You list the Summit County Prosecutor, Court
     of Common Pleas, Juvenile Court, Sheriff's
     Office, County Jail, Alternative Corrections,
     Adult Probation and Medical Examiner.
10
                  Okay?
11
           Α.
                  That sounds right.
12
                  So for any of those affected
13
     divisions, for any year between 2006 and
14
     2018, did you conduct any factual inquiry to
15
     determine what that division would have spent
16
     the money on if it had not spent the money on
17
     what you quantified as opioid-related work?
18
                  MR. SOBOL: Objection in part.
19
           Asked and answered.
2.0
                  THE WITNESS: Let me make two
21
           comments about this in answer to your
22
           question.
23
                  The first comment is about
24
           opportunity costs and the nature of
           opportunity costs in economics and how
```

```
an economist studies opportunity
            costs. And a good example is a
            household which incurs, say, an
            unexpected expense of car repair. And
            I'll just pick a number of $75.
                   If the household had not needed
            to spend that money on car repair, the
            money would have been available for
            other things that the household could
            have purchased. And there's a range
            of things that obviously they could do
            with that money.
                  What is the opportunity costs
14
            of the $75 needed for car repair?
15
            It's $75. That's straightforward.
            Not only economic opportunity costs,
17
            but it's also common sense that that
18
            would be the opportunity cost of those
19
            funds.
2.0
                  So that's what I -- that is the
21
            economic principle that I applied in
22
            this case, which was to do what I
23
            needed to do in order to reliably
24
            identify the opportunity costs of the
25
            funds devoted to opioids. That's part
```

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```
been spent on specifically if they had not
2
     been spent on opioid-related activities.
3
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
4
                  You tell me what those other
     uses are specifically for the Summit County
     ADM Board.
                  MR. SOBOL: Objection. Asked
9
           and answered.
10
                  THE WITNESS: Let me clarify
11
           what I just said a minute ago about
           confirming -- and I'll just call it
12
13
           diversion for short.
14
                  What I was interested in was
15
           does diversion take place. And
16
           there's a series of references in my
17
           report to some, I think, some news
1.8
           articles, to some deposition
19
           testimony, to some other written
2.0
           material, that indicates that, yes,
21
           there is diversion. When funds are
22
           devoted to opioids, other things --
2.3
           some other things don't get done.
24
                   When you asked me to be -- to
           turn my attention to the ADAMHS Board,
```

```
one of my answer.
                  Part two of my answer is that I
           did do investigation into the -- into
           the existence of opportunity costs in
           the form of confirming that, yes,
           spending on opioids did divert these
           funds from other uses. And it was
           part of my investigation and part of
           what we talked about last time, that
           that confirmatory research was done.
11
     QUESTIONS BY MR. KEYES:
12
           Ο.
                  Okay. I asked a yes or no
13
     question. You gave me a long answer.
14
                  You said that you "did confirm
15
     that spending on opioids did divert the funds
16
     from other uses."
```

MR. SOBOL: In part he said

So focusing on what you said

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 $\,$  you did about confirming that spending on

Ο.

that, yes.

OUESTIONS BY MR. KEYES:

 $^{23}$   $\,\,$  opioids did divert the funds from other uses,

Okav?

24 I want to know for each division what that

other use was, what those dollars would have

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17

18

19

20

21

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```
I think is the question you're
           asking --
     OUESTIONS BY MR KEYES.
           Ο.
                  Yes.
                  -- to turn my attention to the
     ADAMHS Board in particular, and asked me to
     identify the particular services that were
     not done because the money was spent on
     opioids, it comes back to the answer I gave a
10
     minute ago in the previous question, which
11
     is, in order to identify opportunity costs,
12
     it's sufficient for an economist to measure
13
     the spending on, in this case, opioid-related
14
     activities.
15
                  And as long as -- as long as
16
     there are alternative uses for the funds,
17
     that spending on opioid-related activities is
18
     the reliable, it's the economically
19
     principled metric for what opportunity costs
2.0
     consist of.
21
                  For the Summit County
22
     Children's Services Board, can you tell me
23
     what the other use was, what the dollars
24
     would have been spent on specifically if they
     had not been spent on opioid-related
```

activities? MR. SOBOL: Objection. Asked and answered. THE WITNESS: Now, this is the same question but for another OUESTIONS BY MR KEYES: Ο. Yes. -- if I understand it? Well, then the answer is going 11 to be the same. 12 With respect to my interest in 13 diversion. I wanted to know and had confirmed 14 in -- with respect to a series of things that 15 I refer to in my report that, yes, diversion 16 is real. And what I mean by that is that 17 when funds are spent on opioid-related 18 activities, some other things are not done. 19 And when you come to ask me 20 about a particular division, in this case 21 Family Services, then what -- what I did in 22 this case is to identify the opportunity 23 costs of the funds, which is sufficient for 24 an economist to be able to provide a dollar metric of the opportunity cost of the funds.

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```
activity, it's not necessary for me to know
     what particular -- what precise services that
3
     those funds would have been devoted to in an
     alternative world in which the opioid crisis
     were not here.
                  It's sufficient for me to know
     that this is what they spent on
     opioid-related activities, and those funds
9
     would have been available for something else.
10
                  Did you conduct a factual
11
     inquiry for any of the Summit County affected
12
     divisions to identify the other use, such
13
     that you can tell me what the dollars would
14
     have been spent on specifically if they had
15
     not been spent on opioid-related activities?
                  MR. SOBOL: Objection. Asked
16
17
            and answered.
18
                  THE WITNESS: Yeah, for each of
19
            the Summit County divisions that
2.0
            you're referring to, my objective was
21
            to identify the opportunity cost of
22
            funds devoted to opioid-related
23
            activity.
24
                  And the economically principled
```

standard way of assessing opportunity

```
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     And it's not necessary for me to know
     precisely what those funds would have been
      spent on as long as there were alternative
     use of those funds.
                  That's the economically
     principled way to go about assessing
7
     opportunity costs, and that's what I did.
                  So if I asked you the same
     question for each of the other affected
     divisions for Summit County, is your answer
11
     the same?
12
                  MR. SOBOL: Objection.
13
                  THE WITNESS: My answer would
14
           generally be the same, yes.
15
     OUESTIONS BY MR. KEYES:
16
                  Well, for the Summit County
17
     prosecutor, will you tell me what the other
18
     use was, that is, what the dollars would have
19
     been spent on specifically if they had not
20
     been spent on opioid-related activities?
21
                  Well, let me just remind you of
22
     the opportunity costs principle here, which
23
     is, for an economist to be able to provide a
```

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24

25

Dago 49E

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opportunity cost of spending on a particular

reliable, theory-based metric of the

```
costs is to measure the funds devoted
           to the activity in question, which in
           this case is opioid-related
           activities.
                  And so long as there are
           alternative use of those funds, it's
           not necessary and it even is just --
           it's not done to -- it's not necessary
           to propose a hypothetical world in
10
           which something else would have
11
           happened.
12
                  What is sufficient for me is to
13
           know that there would have been other
           uses for the funds of the division,
14
15
           and by devoting them to opioids there
16
           was less money available for other
17
           things.
18
     OUESTIONS BY MR. KEYES:
19
                  For any year between 2006 and
2.0
     2018, for any of the Cuyahoga County-affected
21
     divisions that you've identified, did you
22
     conduct any factual inquiry to identify the
23
     other use such that you can tell me what the
24
     dollars would have been spent on specifically
     if they had not been spent on opioid-related
```

```
activities?
                   MR. SOBOL: Objection. Asked
            and answered.
                   THE WITNESS: The answer for
            Cuyahoga County would be similar to
            the answer for Summit County.
                   What I was doing as an
            economist in this case is to estimate
            in dollar terms a measure of the
            opportunity cost of the funds that
11
            were devoted to opioid-related
            activities and applying standard
            methodology in economics to measure
14
            opportunity costs.
15
                   It's not necessary for an
16
            economist to identify specifically the
17
            alternative uses of the funds in a
18
            hypothetical world in which they had
19
            not been spent on opioids. It's --
2.0
            opioid-related activities.
21
                   It's sufficient for me to say
22
            this -- these were the funds devoted
23
            to opioid-related activities. They
            would be available for other uses.
24
```

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there was particular cases, you know.
            You'd just find some particular
3
            documents, and that --
     QUESTIONS BY MR. KEYES:
                  So can you identify for me any
     year between 2006 and 2018 when the Summit
     County ADM Board created and funded a new
     position because of the opioid problem?
9
            Α.
                  I don't remember.
                  Can you identify for me, for
10
11
     any year between 2006 and 2018, when the
12
     Summit County Children's Services Board
13
     created and funded a new position because of
14
     the opioid problem?
15
                   MR. SOBOL: Objection.
16
                   THE WITNESS: Okay. Before I
17
            answer your question, I want to
1.8
            clarify, it's not necessary for this
19
            to take place in order for there to
2.0
            have been opportunity costs. And I
21
            don't remember whether I saw anything
22
            about a creation of a position.
23
     QUESTIONS BY MR. KEYES:
24
                  Did you look into it?
                   Well, I would have been
```

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QUESTIONS BY MR. KEYES:
                   In 2006, did the Summit County
     ADM Board create and fund any new position
     because of the opioid problem?
           Α.
                  I'm not sure.
                  How about in 2007?
                  I'm not sure.
                  How about any year between 2008
     and 2018?
           Δ
                  I'm not sure.
11
                  Did you look into that at all,
           Ο.
     to see whether in any year the Summit County
13
     ADM Board created and funded any new position
14
     because of the opioid problem?
15
                  I may have. You know, I was
           Α.
16
     interested in material like this, but I don't
17
     remember the details of the Summit ADM Board.
18
                  Where did you look to answer
19
     that question when you were interested in
20
     that question?
21
           Α.
                  In various county documents for
22
     both counties
23
           Ο.
                  And what did you learn?
24
                  MR. SOBOL: Objection.
25
                  THE WITNESS: Well, it's --
```

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```
interested in these sort of documents.
                  Why, if it's not necessary to
           Ο.
3
     your inquiry?
                  Well, it just seemed prudent
     to, you know, be aware of what's going on in
     the affected divisions.
                  Did you take any notes as you
     did this factual inquiry to sort of keep
9
     track of what you learned?
10
                  MR. SOBOL: Objection.
11
                  THE WITNESS: I don't think so,
12
           no.
13
     QUESTIONS BY MR. KEYES:
14
                  Do you talk about it at all in
15
     your report?
16
                  MR. SOBOL: Objection.
17
                  THE WITNESS: Talk about what?
18
     QUESTIONS BY MR. KEYES:
19
                  About whether the Summit County
2.0
     Children's Services Board created or funded
21
     any new position because of the opioid
22
     problem in any year between 2006 and 2018?
23
                  Well, my report contains a lot
24
     of details on staffing at all the affected
```

```
Do you talk about that at all
     in your report?
3
                  MR. SOBOL: Objection.
     OUESTIONS BY MR. KEYES:
                  In the narrative report, you
     have this --
           Δ
                  Narrative report.
                   -- you have this long report.
                  Do you talk about it at all in
10
     your report?
11
                  MR. SOBOL: Objection. Asked
12
           and answered.
                  THE WITNESS: Yeah, this is --
14
           I'm getting a little lost again.
15
                  This is ADM? ADM in a
16
           particular county?
17
     QUESTIONS BY MR. KEYES:
18
                  This is the Summit County
     Children's Services Board.
19
20
                  Summit County Children's
           Δ
21
     Services.
22
           Ο
                  We already covered Summit
23
     County ADM Board --
24
           Α.
                  Okay. Sorry.
25
                  -- where you said, "I think I
           Ο.
```

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```
stenographer is great.
                   THE WITNESS: I --
3
                   MR. SOBOL: There's no question
            before you.
                   He just gave two sentences
            about what it is that he recalls the
7
            testimony being.
     OHESTIONS BY MR KEYES.
9
                  Do you talk in the narrative
10
     section of your report about whether the
11
     Summit County Children's Services Board
12
     created or funded any new position because of
13
     the opioid problem?
14
           Α.
                   I don't think that section in
15
     my report discusses a new position.
16
                  Can you identify for me any
17
     year between 2006 and 2018 when the Summit
18
     County Prosecutor created or funded a new
19
     position because of the opioid problem?
2.0
                   MR. SOBOL: Objection.
21
                   THE WITNESS: Not as I sit here
22
            today, as people say.
23
     QUESTIONS BY MR. KEYES:
24
                  Can you identify for me any
     year between 2006 and 2018 when the Summit
```

```
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     learned something, but I don't remember what
3
                  MR. SOBOL: Objection.
           Mischaracterizes the answer.
     OUESTIONS BY MR. KEYES:
                  Same question for Summit County
     Children's Service Board.
                   MR. SOBOL: What's the
           question?
10
     QUESTIONS BY MR. KEYES:
11
                  You said it's not necessary --
12
     I want to be clear. You said it's not
13
     necessary, but you still were interested
14
     because you thought it was prudent.
15
                  And I asked what you remember
16
     learning, and you said, I don't know.
17
                  And I said, do you talk about
18
     the concept in the narrative report about
     whether the Summit County Children's Services
19
20
     Board created and funded any new position
     because of the opioid problem?
21
22
                  MR. SOBOL: We don't even need
23
           a stenographer, do we?
24
                  Do you have a question?
```

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25

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MR. KEYES: I think the

```
County Court of Common Pleas created or
     funded a new position because of the opioid
3
     problem?
                  MR. SOBOL: Objection.
                  THE WITNESS: Again, this is
           not necessary for an opportunity cost
           investigation.
                  But in answer to your question,
9
           I don't recall.
     QUESTIONS BY MR. KEYES:
10
11
                  Can you identify for me any
     year between 2006 and 2018 when the Summit
12
13
     County Juvenile Court created or funded a new
14
     position because of the opioid problem?
15
                  MR. SOBOL: Objection.
16
                  THE WITNESS: I don't recall.
17
     QUESTIONS BY MR. KEYES:
18
                  Can you identify for me any
19
     year between 2006 and 2018 when the Summit
2.0
     County Sheriff's Office created and funded a
21
     new position because of the opioid problem?
22
                  MR. SOBOL: Objection.
23
                  THE WITNESS: Again, it's not
24
            necessary for an opportunity cost
           analysis, but I don't recall the
```

```
specifics of your question.
     QUESTIONS BY MR. KEYES:
3
                  Can you identify for me any
     year between 2006 and 2018 when the Summit
     County Jail created and funded a new position
     because of the opioid problem?
7
                  MR. SOBOL: Objection.
                  THE WITNESS: It's the same
            answer: It's not necessary for
            opportunity costs, and I don't
11
           remember anything about a new
12
           position.
13
     QUESTIONS BY MR. KEYES:
14
                  Can you identify for me any
15
     year between 2006 and 2018 when Summit County
16
     Alternative Corrections created and funded a
17
     new position because of the opioid problem?
18
                  MR. SOBOL: Objection.
19
                  THE WITNESS: It would be the
2.0
            same answer: It's not necessary for
21
            opportunity costs, and I don't recall
22
            about a new position.
23
     OUESTIONS BY MR. KEYES:
24
                  Can you identify for me any
25
     vear between 2006 and 2018 when Summit County
```

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```
THE WITNESS: This would be the
            same answer I gave for the divisions
            at Summit: It's not necessary to
            determine opportunity costs to have a
            division hired new personnel.
                   And then with respect to the
            specifics about each division and each
            year, I don't recall.
9
     OUESTIONS BY MR. KEYES:
10
                  Did the Summit County ADM Board
11
      in 2006 shift any personnel from one
12
     department to another or from one activity to
13
      another because of the opioid problem?
                   MR. SOBOL: Objection.
14
15
           "Shift "
16
                   THE WITNESS: Well, the funding
17
            for staff means they would have
1.8
            devoted their time to opioid-related
19
            activities. That's what opportunity
2.0
            cost tells you.
21
                   Beyond that, I'm not sure how
22
            to interpret the nature of your
23
            question.
24
     QUESTIONS BY MR. KEYES:
                  In 2006, did the Summit County
```

```
Adult Probation created and funded a new
     position because of the opioid problem?
                  MR. SOBOL: Objection.
                  THE WITNESS: It would be the
           same answer: It's not necessary for
           opportunity costs, and I don't recall
           the specifics of a new position.
     QUESTIONS BY MR. KEYES:
                  Can you identify for me any
10
     year between 2006 and 2018 when Summit County
11
     Medical Examiner created and funded a new
     position because of the opioid problem?
13
                  MR. SOBOL: Objection.
14
                  THE WITNESS: It would be the
15
           same answer: It's not necessary for
16
           opportunity costs, and I don't recall
17
           the specifics of Medical Examiner.
18
     QUESTIONS BY MR. KEYES:
19
                  Turning then to Cuvahoga
20
     County. For any of the divisions that you
21
     identified as an affected division, did any
```

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opioid problem?

22

23

24

25

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of them, in any year between 2006 and 2018,

create and fund a new position because of the

MR. SOBOL: Objection.

```
ADM Board reassign any personnel from one
     department to another?
3
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
                  Because of the opioid problem?
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, this,
           again, isn't necessary for opportunity
9
           cost, and I -- in answer to your
10
           question about the assignment, I'm not
11
           sure.
12
     OUESTIONS BY MR. KEYES:
13
                  Okay. In 2007, did the Summit
14
     County ADM Board reassign any personnel from
15
     one department to another?
16
                  MR. SOBOL: Objection.
17
                  THE WITNESS: This would be the
18
           same answer as to the previous
19
           question: It's not necessary for
2.0
           opportunity costs, and I'm not sure
21
           about the reassignment.
22
     QUESTIONS BY MR. KEYES:
23
                  In any year between 2008 and
24
     2018, did the Summit County ADM Board
     reassign any personnel from one department to
```

```
another because of the opioid problem?
                   This would be the same answer:
     It's not necessary from the standpoint of
     opportunity costs, and I'm not sure about
     reassignment.
                   Can you tell me for any year
     between 2006 and 2018 whether Summit County
     Children's Services Board reassigned any
     personnel from one department to another
     because of the opioid problem?
11
                   MR. SOBOL: Objection.
12
                   THE WITNESS: This would be the
            same answer as to the ADAMHS Board:
14
            It's not necessary for me to know that
15
            in order to estimate opportunity
16
            costs.
17
                  And with respect to your
18
            question about reassignment, I'm not
19
            sure.
     QUESTIONS BY MR. KEYES:
20
21
                 For any year between 2006 and
22
     2018, did any of the Summit County affected
23
     divisions reassign any personnel from one
24
     department to another because of the opioid
25
     problem?
```

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```
MR. SOBOL: Objection to the
            form.
                   THE WITNESS: Well, this is a
            version of the question you just
                   I wonder if after I answer this
            question, if we could take a break for
            a hit
                   MR. SOBOL: Whatever.
10
                   THE WITNESS: So in order to
11
            estimate opportunity costs, it's not
            necessary for me to know whether job
12
13
            responsibility was changed. I think
            that was the question. I'm still able
14
15
            to do that with the information that T
16
17
                   And I'm not sure about in a
18
            particular year whether they changed
19
            job assignments.
2.0
     QUESTIONS BY MR. KEYES:
21
                   Okay. Let me just finish this
22
     line of questioning.
23
                   In any --
24
                   MR. SOBOL: Do you want to take
```

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```
MR. SOBOL: Objection.
                   THE WITNESS: Again, to
            estimate opportunity costs, I'm able
            to do that with the numbers that I
                  And with respect to your
            question about specific reassignments,
            I'm not sure.
     OUESTIONS BY MR. KEYES:
10
                  In 2000 -- for any year between
11
     2006 and 2018, did any of the Cuyahoga County
     affected divisions reassign any personnel
13
     from one department to another because of the
14
     opioid problem?
15
           Α.
                  This would be the same -- the
     nature of the answer would be the same as for
16
17
     Summit: For me to do this work in this
18
     matter, to be able to quantify opportunity
19
     costs, I had what I needed to know.
20
                  And with respect to your
21
     specific question, I'm not sure about
22
     reassignment
23
                  In 2006, did the Summit County
24
     ADM Board change the job responsibilities for
25
     any employee because of the opioid problem?
```

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```
MR. KEYES: Can I ask a few
           questions just to finish this?
                  MR SOBOL: He asked for a
           break. Let him have a break.
                  It's up to you.
                  THE WITNESS: Go ahead.
     QUESTIONS BY MR. KEYES:
                  Okay. For any year between
9
     2006 and 2018, did the Summit County ADM
10
     Board change the job responsibilities for any
11
     employee because of the opioid problem?
                  MR. SOBOL: Objection. "Job
12
13
           responsibilities."
14
                  THE WITNESS: This answer will
15
           be similar to a series of answers I've
16
           given the last few minutes: In order
17
           to estimate opportunity costs, I had
18
           the information I needed in order to
19
           estimate that in dollar terms.
2.0
                  And with respect to your
21
           question about job responsibilities,
22
           it wasn't necessary for me to know if
23
           there were job responsibilities
24
           altered because of the opioid crisis.
25
```

```
QUESTIONS BY MR. KEYES:
2
                   Okay. Last question and then
      we can take a break.
                   For any year between 2006 and
     2018, did any of the Summit County affected
     divisions or any of the Cuyahoga County
     affected divisions change the job
     responsibilities for any employee because of
     the opioid problem?
                   MR. SOBOL: Objection.
11
                   THE WITNESS: Okay. As an
12
            economist, in order to fulfill my
            assignment in this case, which is to
14
            estimate the opportunity cost of these
15
            budget funds, I was able to do that
            based on the information that I had in
17
            a reliable and professionally
18
            acceptable way.
19
                   With respect to your question
2.0
            about whether job responsibilities
21
            were changed in either county over a
22
            11-year period in a total of maybe 19
23
            affected divisions. I have to answer
24
            that I'm not sure.
                   VIDEOGRAPHER: The time is
25
```

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```
OUESTIONS BY MR. KEYES:
2
                  For any year between 2006 and
3
     2018, did the Summit County ADM Board
     reallocate any money from one
     nonopioid-related program or account in order
6
     to address an opioid-related need?
                   MR. SOBOL: Objection.
7
                   THE WITNESS: Okay. This would
9
            be a similar answer to I gave a minute
10
            ago: In order to assess opportunity
11
            costs, it's not necessary for me to
12
            know the kind of program and account.
13
                   And with respect to your
14
            question about program and accounts,
15
            I'm not sure if there was reallocation
16
            across or within programs and
17
            accounts.
18
     OUESTIONS BY MR. KEYES:
19
                  For any year between 2006 and
2.0
     2018, did any of the Summit County affected
21
     divisions reallocate any money from one
22
     nonopioid-related program or account in order
23
     to address an opioid-related need?
24
                   MR. SOBOL: Objection.
                   THE WITNESS: Okay. In order
```

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10:07 a.m., and we're off the record.
             (Off the record at 10:07 a.m.)
                   VIDEOGRAPHER: The time is
            10:30 a.m., and we're on the record.
     OUESTIONS BY MR. KEYES:
                   Professor McGuire, in 2006, did
     the Summit County ADM Board reallocate any
     money from one nonopioid-related program or
     account in order to address an opioid-related
10
     need?
11
           Α.
                  Nonopioid-related account?
12
                   I'm not sure if they moved
13
     money between accounts. I'm not sure.
14
                   In 2007, did the Summit County
           Ο.
15
     ADM Board reallocate any money from one
16
     nonopioid-related program or account in order
17
     to address an opioid-related need?
18
                   MR. SOBOL: Objection.
                  THE WITNESS: Again, this isn't
19
2.0
            necessary for me to be able to
21
            identify opportunity cost.
22
                   In answer to your question, I'm
23
            not sure what programs and accounts
24
            may have been subject to some
25
            reallocation
```

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```
to estimate opportunity costs, it's
           not necessary for me to be able to
           identify specific reallocations
           between or across programs and
           accounts.
                  And in answer to your question,
           I'm not sure if there were a program
           and/or account-related allocations
     OHESTIONS BY MR KEYES.
9
10
                  For any year between 2006 and
11
     2018, did any of the Cuyahoga County affected
12
     divisions reallocate any money from one
13
     nonopioid-related program or account in order
14
     to address an opioid-related need?
15
                  MR. SOBOL: Objection. In
16
           part, asked and answered.
17
                   THE WITNESS: Again, this is
18
           not something I need to know in order
19
           to fulfill my assignment here, to
2.0
           estimate opportunity costs.
21
                  And with respect to your
22
           question, I'm not sure about the --
23
           your division reallocation across
24
           programs and accounts.
25
```

QUESTIONS BY MR. KEYES: 2 You said you didn't need to 3 know. For any year between 2006 and 2018, did you attempt to identify whether any of the Summit County affected divisions reallocated any money from one nonopioid-related program or account to address an opioid-related need? Okay. What I did for all these 11 years, for all these divisions, is to measure 12 with methods that we've discussed at some 13 point today and yesterday {sic} the funds 14 that each division in each year devoted to 15 opioid-related activities. And the economic 16 principle of opportunity cost means that 17 that's what I need to know: how much of 18 these funds that had alternative uses were 19 spent on opioid-related activities. 20 My question was: For any year 21 between 2006 and 2018, did you attempt to 22 identify whether any of the Summit County 23 affected divisions reallocated any money from 24 a nonopioid-related program or account to 25 address an opioid-related need?

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```
department, it would be a rare
           anything, really, that if an
           unexpected cost is imposed on the
           decision-maker that there's nothing
           else they could do with those funds.
           That doesn't make a lot of sense to
           me, just as a microeconomist.
                   And here, as we've discussed, I
           was interested in confirming that by
10
           information related to diversion. And
11
           in speaking with and looking for
           written material and for reading
12
13
           depositions, there's evidence that
           diversion did take place. Specific
14
15
           examples of if the police are doing
16
           this, then they couldn't be doing
17
           that.
1.8
                   So I find it to be, you know, a
19
           conclusion that I hold very firmly
2.0
           that, yes, if you're spending money on
21
           one thing, you can't spend it on
22
           something else.
23
     QUESTIONS BY MR. KEYES:
24
                   You believe that to be a
```

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```
MR. SOBOL: Objection. Asked
                   THE WITNESS: My task was to
            estimate opportunity costs, which is
            what I focused on. And the estimate
            of opportunity cost is based on a
            measure of the funds devoted to the
            opioid-related activity.
                  It's sufficient for me as an
            economist to be able to determine
11
            opportunity cost, to measure those
            funds and to be aware that there are
13
            other uses for those funds.
14
                  In that context, the numbers I
15
            came up with are the right ones.
     QUESTIONS BY MR. KEYES:
16
17
                  What steps did you take to be
18
      aware that there are other uses for the funds
19
     that you've said were the opioid-related
20
     expenditures?
21
                  MR. SOBOL: Objection.
22
                  THE WITNESS: Well to some
23
            degree these -- this is based on
24
            experience. It would be a rare
25
            household, it would be a rare
```

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```
MR. SOBOL: Objection.
                  THE WITNESS: No. that's not a
           truism, but it's accurate in lots of
           contexts.
     OUESTIONS BY MR. KEYES:
                  And it's an assumption here on
     your part?
                  MR. SOBOL: Objection. Asked
9
           and answered.
10
                  THE WITNESS: No.
11
     QUESTIONS BY MR. KEYES:
12
                  Okay. So tell me the specific
13
     steps you took to identify concrete things
14
     that any of these divisions would have spent
15
     the money on if they did not spend the money
16
     on opioid-related activities.
17
                  MR. SOBOL: Objection. Asked
18
           and answered.
19
                  THE WITNESS: I think this is a
2.0
           version of a similar question I've
21
           been asked a few times this morning.
22
           And what was necessary for me to do
23
           was to identify the funds devoted to
24
           opioid-related activities, which are a
           metric of the opportunity cost of
```

```
those funds so long as there are
            alternative uses for those funds.
                  You know, as in the case of a
            household in which, say, $75 is spent
            on an unexpected car repair, that $75
            is a good measure of the opportunity
            cost of those funds. And I can say
            that with confidence, and I can say
            that based on sound and well-accepted
            principles of economics without
            needing to know whether that $75 would
            have spent on dog food or whether it.
            would have been, you know, I don't
14
            know, spent on anything else.
15
                  So for me to do my job, it was
            sufficient for me to measure the funds
17
            devoted to the opioid-related
18
            activity.
     OUESTIONS BY MR. KEYES:
19
20
                  I take it you like the $75
21
     example. You've used it a number of times as
22
     a hypothetical.
23
                  And if I understand your
24
     hypothetical, someone has a damaged car and
25
     it's going to cost $75 to repair it?
```

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```
Okay?
           Α.
                   Okav.
                   And I decide I'm going to have
     my friend's shop do the repair work because
     it gets repaired, and I want my friend's shop
     to get the business.
                   Okay?
           Δ
                  Okav
                   So I spend a hundred dollars to
     get the car repaired.
10
11
            Α.
12
            Q.
                   Is my opportunity cost $75 or a
13
     hundred dollars in that example?
14
                   Well, for an economist, the --
15
     what you purchase with your funds that have
     to do with car repair, in this case, are a
16
17
     little more complicated because it's not
18
     simply one thing, which is to get your car
19
     repaired, but you're also getting value from
2.0
     the transaction with your friend. And
21
     that's -- you know, for whatever reason, you
22
     find that to be worthwhile doing. And you
23
     make the decision to pay a hundred dollars to
24
     get your car fixed.
                   The opportunity cost of those
```

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                   That's the basis of my example,
     ves.
                   Okay. So I take it that in
     your hypothetical someone has gone to a shop
     and they've gotten an estimate that says it's
     going to cost $75.
                  MR. SOBOL: Objection.
                   Is there a question?
     OUESTIONS BY MR. KEYES:
                  Is that correct?
11
                  Well, not exactly. It was more
     what I -- I think what I said in my example
13
     is that they had to pay $75 to repair the
14
     car.
15
                  Okay. Well, let me refine this
           Ο.
     hypothetical.
16
17
                  I have a car and it's damaged.
18
     I take it to a shop, and I get a $75
19
     estimate. $75 to repair the damage.
20
                  Okav?
21
           A.
                  Okay.
```

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damage.

22

23

24

25

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another shop, and he says he can do the work

for a hundred dollars to repair the same

I have a friend who works at

```
funds is a question about what else could
     have been done with the money with respect to
     other things your household could have
     purchased. And the answer to that is, you
     would have had a hundred dollars had you not
     purchased the car repair from the friend. So
     $100.
           Ο
                  So in my hypothetical, my
9
     opportunity cost is a hundred dollars?
10
                  In your hypothetical, when
11
     you've decided that you want to go to your
12
     friend for the transaction and you spend a
13
     hundred dollars on that, the opportunity cost
     of that hundred dollars is a hundred dollars
14
15
     less of other stuff you could buy.
16
                  Let me change the hypothetical.
17
     I still have gone to the shop down the
18
     street. They've still given me a $75 repair
19
     estimate for that damage.
2.0
                   My girlfriend works at another
21
     shop and --
22
                  Does your wife know?
                   -- and she says that her shop
23
24
     can fix it for 200 bucks.
                  Okav.
```

```
And because I have a crush on
     her, I decide I'm going to take my car to
     that shop, and I'm going to spend $200 for
     that shop to repair it.
           Α.
                  Okay.
                  In that hypothetical, my
     opportunity cost is $75 or $200?
                  Okay. This hypothetical, to an
     economist, isn't very different than your
     first hypothetical.
11
                  You had a friend whose business
     you -- giving him the business was worth kind
13
     of -- I think the implication of your
14
     hypothetical, it was worth $25 to you to be
15
     able to give the $100 to your friend and to
16
     repair vour car.
17
                  You have another friend who you
18
     value more highly. You're even happier about
19
     giving her shop the business, and you spend
20
     $200 to get your car repaired. But you're
21
     kind of buying -- you would call it in
22
     economics a joint product. You're buying a
23
     car repair plus you're buying something else,
24
     which is the regard with which your friend
     holds you, or however you want to phrase
```

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# $\hbox{\tt Highly Confidential - Subject to Further Confidentiality Review}\\$

```
$200 on something else instead of taking this
     damaged car to my girlfriend's shop. To you
3
     the mere fact that I spent $200 means the
     opportunity cost is $200, regardless of how I
     could have spent the money elsewhere.
6
                  MR. SOBOL: Objection.
7
     QUESTIONS BY MR. KEYES:
                  Is that correct?
9
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, I think the
10
11
           way to say that in conventional
           economics terms is that it's not
12
13
           necessary for me, as an evaluator of
14
           this opportunity cost, to know
15
           precisely what you would have done
16
           with the $200. You might have saved
17
           some. You might have taken your wife
18
           out to dinner.
19
                  In any case, the opportunity
2.0
           cost of whatever that is would be
21
           $200. It's very mainstream,
22
           down-the-middle-of-the-plate
23
           economics.
24
     QUESTIONS BY MR. KEYES:
                  For any year between 2006 and
```

```
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      that, and you spend $200 for that.
                   Then the opportunity cost
     question is: How much fewer of other
     household items would you be in position to
     buy after you decided to spend $200 for your
     car repair? And it's $200 less.
                  So the answer with respect to
     the opportunity cost of that $200 is $200.
                  And so the cost consequence of
10
     my decision is $200, because that's what I
11
     elected to spend, correct?
                  Well, if I could phrase it in
13
     my terms, the opportunity cost of those $200
14
     is $200.
15
                  And to you, it doesn't matter
16
     whether I would spend that $200 on something
17
     else. The fact that I have spent $200 means
18
     the opportunity cost is $200, correct?
19
                  MR. SOBOL: Objection.
2.0
                  THE WITNESS: I'm not sure I'm
21
            following what you're trying to get at
22
           here. Sorry.
23
     OUESTIONS BY MR. KEYES:
```

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24

25

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it doesn't matter how I would have spent that

Well, I think you said before

```
2018, did you attempt to identify whether any
     of the Cuyahoga County affected divisions
     reallocated any money from a
     nonopioid-related program or account to
     address an opioid-related need?
                  MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: In order to
9
           identify opportunity cost, which is
10
           what I needed to do for my report, it
11
           was sufficient for me to get good
12
           measures of the funds devoted to
13
           opioid-related activities. It wasn't
14
           necessary to be able to, you know,
15
           describe the ins and outs of that.
16
                  And so with respect to your
17
           question of reallocation on accounts
18
           or programs -- I forget how you
19
           phrased it -- I'm not sure.
2.0
     QUESTIONS BY MR. KEYES:
21
                  My question was: Did you
22
     attempt to do that identification?
23
                  You said you didn't need to.
24
                  My question is not whether you
     needed to. My question was did you.
```

```
Did you attempt -- for any year
     between 2006 and 2018 attempt to identify
3
     whether any of the Cuyahoga County affected
     divisions reallocated any money from a
     nonopioid-related program or account to
     address an opioid-related need?
7
                  MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: Yeah. So that
           whoever is watching this or reading it
           understands where I'm coming from on
           this. I need to explain why I didn't
           need to do that.
14
                  And the reason is that my job,
15
           as I understood it, was to estimate
           the opportunity cost of funds devoted
17
           to the opioid-related activities. And
           that's what I did. And that told me
18
19
           what I needed to know to be able to
2.0
           get a good measure of the cost to the
21
           bellwether counties here.
22
                  And it wasn't necessary for me
23
           to determine what the alternative
24
           spending would have been in the
           affected divisions in either county
```

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```
division if those dollars were not spent on
     opioid-related activities.
3
                  MR. SOBOL: Objection. Asked
4
           and answered.
                  THE WITNESS: I'm sorry, do you
           mean would or could in that question?
     OUESTIONS BY MR. KEYES:
                  Mould
           Ω
           Α.
                  Mould
10
                  Would.
11
                  For any of the Summit County
12
     affected divisions, tell me one concrete way
13
     the money would have been spent by that
14
     division if those dollars were not spent on
15
     opioid-related activities.
16
                  Okay.
17
                  MR. SOBOL: Objection. Asked
1.8
           and answered.
19
                  THE WITNESS: The application
2.0
           of the principle of opportunity costs
21
           in this context provides an answer to
           that in the form that had the money
2.3
           not been devoted to opioid-related
24
           activities, it would have been
           distributed across some other of the
```

```
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```

```
over the years.
      OUESTIONS BY MR. KEYES:
                  You have opined to a reasonable
     degree of economic certainty that opportunity
     costs exist for each of the affected
     divisions, correct?
                  MR. SOBOL: Objection. You may
           answer.
                  THE WITNESS: I'll say okay.
10
     QUESTIONS BY MR. KEYES:
11
                  And you have placed the value
     on those opportunity costs as the dollars
13
     that you quantified as being spent on
14
     opioid-related activities, correct?
15
                  That was my measure of
16
     opportunity costs, yes, the dollars spent on
17
     opioid-related activities.
18
           Ο.
                  Okay. For any --
19
                  Pardon me, just -- I'm sorry,
20
     just one qualification of that.
21
                  Of the potentially affected
22
     costs
23
                  For any of the Summit County
24
     affected divisions, tell me one concrete way
25
     the money would have been spent by that
```

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```
activities of the division.
     OUESTIONS BY MR. KEYES:
3
                  Can you be any more specific
     than that?
                  MR. SOBOL: Objection. Asked
6
           and answered.
                  THE WITNESS: Well, in order to
           estimate opportunity cost, which is my
9
           assignment here, it's not necessary
10
           for me to identify exactly what other
11
           program or account would have been --
12
           would have had access to the funds
13
           that were devoted to opioid-related
           activities. It's completely
14
15
           sufficient for me to know the
16
           opioid-related activity funds.
17
     QUESTIONS BY MR. KEYES:
18
                  So for any of the Summit County
19
     affected divisions, can you give me a single
2.0
     example of what the dollars would have been
21
     spent on if they had not been spent on what
22
     you identified as the opioid-related
23
     expenditures?
24
                  MR. SOBOL: Objection. Asked
           and answered.
```

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```
THE WITNESS: Well, this is
            the -- exactly the same question for a
            different county. And my answer, to
            the best of my ability, will be the
            same, which is, for me to do my
            assignment, what -- you know, and what
            that involved is application of the
            principle of opportunity cost, then
            it's completely sufficient for me to
            identify the funds that are devoted to
11
            opioid-related activities, and it's
            not necessary for me to identify the
            particular program or account or
14
            activity that any of these divisions
15
            would have spent those funds on in the
            alternative.
17
                   It's sufficient for me to know
18
            they could have spent those on the
19
            alternative, and they have, you know,
2.0
            a value in alternative use, which is
21
            the idea of opportunity cost.
22
     OHESTIONS BY MR KEYES.
23
                   Did you talk to a single person
     who works for any of the Summit County
24
25
     affected divisions to identify what the
```

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```
OUESTIONS BY MR. KEYES:
                   Right. You said you didn't
3
     need to do it; you've made that point many
     times.
4
                   Did you talk to a single person
     who works for any of the Summit County
     affected divisions to identify what the
     dollars would have been spent on --
9
            Δ
                   Yeah.
                   -- in a particular year if they
10
11
     hadn't been spent on what you identified as
12
     opioid-related expenditures?
13
                   MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
14
15
                   Did you do it?
16
                   MR. SOBOL: Objection. Asked
17
            and answered.
1.8
                   THE WITNESS: In order to have
19
            this answer be well-understood by
2.0
            whoever watches the tape or reads the
21
            transcript, I think it's important for
22
            me to take a minute to explain the --
2.3
            what I needed to do in this case,
24
            which is to identify the funds devoted
            to opioid-related activities.
```

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```
dollars would have been spent on in a
     particular year if they had not been spent on
     what you identified as opioid-related
     expenditures?
                   MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: Well, this
           follows from the question you asked a
           minute ago.
                   For me to do what I needed to
11
           do, I needed to know what were the
12
           funds devoted to opioid-related
13
           activities.
14
                   To identify an alternative
15
           world in which those funds were not
           devoted to opioid-related activities,
16
17
           it wasn't necessary for me to know
18
           what a particular official in a
19
           particular division in a particular
20
           year would have done alternatively.
21
                   What I needed to establish is,
22
           here's what was spent on
23
           opioid-related activities, and these
           funds had alternative uses.
24
25
```

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```
And it wasn't necessary for me
           to come up with a reliable estimate of
           opportunity cost to know what, in an
           alternative world, a particular
           official would have done had some of
           those funds be freed up for other
           uses.
                  It was sufficient for me to
           know that there were alternative uses
10
           of those funds, and I have a good
11
           economic measure of what the
12
           opportunity cost of those funds were.
13
     QUESTIONS BY MR. KEYES:
14
                  Did you talk to a single person
15
     who works for any of the Cuyahoga County
16
     affected divisions to identify what the
17
     dollars would have been spent on?
18
                  MR. SOBOL: Objection. Asked
19
           and answered.
2.0
     QUESTIONS BY MR. KEYES:
21
                  Same answer?
22
                  MR. SOBOL: Objection. Asked
23
           and answered.
24
                  You may answer.
                  THE WITNESS: Well, I would
```

```
just refer to my previous answer,
            which would be exactly the same, with
            a change in the location.
     OUESTIONS BY MR. KEYES:
                  Did you review any historical
     budget or finance or accounting documents to
     identify what the dollars would have been
      spent on if they had not spent on what you
      identified as opioid-related activities?
                   MR. SOBOL: Objection. Asked
11
            and answered.
                   THE WITNESS: I have a hard
            time with a "would" verb here, but let
14
            me answer as best I can.
15
                   In order to do my job of
            estimating opportunity cost, it was
17
            sufficient for me to identify how much
18
            of the funds of each division were
19
            devoted to opioid-related activities.
2.0
                   It wasn't necessary for me to
21
            identify what would have happened had
22
            an official had more budget
23
            flexibility and they might have been
24
            able to move funds that -- funds that
            were not needed for opioid-related
```

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```
particular, they have alternative
           uses. And in my experience, that's a
           pretty general characterization of the
           situation of an economic actor.
                  And a fundamental element of
           economics is scarcity. And what
           scarcity has to do with in this case
           is funds are limited. And when funds
           are limited, they have alternative
10
           uses.
11
                  And just one more quick comment
12
           about this. I was interested in
13
           confirming evidence of diversion,
14
           which is another --
     OUESTIONS BY MR. KEYES:
15
16
           Ο.
                  Diversion of funds?
17
                  Diversion of funds is something
18
     we've talked about earlier.
19
                  And I did speak with and find
2.0
     written evidence of and read deposition
21
     testimony of -- that confirmed the presence
22
     of, you know, alternative uses of funds.
23
                  And when you say "alternative
24
     uses, " you're saying possibilities; they
     could have spent the dollars on those other
```

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```
activities; only that there would be
            alternative uses for those funds and
            they would have been devoted to
            something.
                   But I don't need to know
            exactly what the official would have
           done with those funds.
     QUESTIONS BY MR. KEYES:
                  Well, if you haven't talked to
10
     anyone and you haven't reviewed any
11
     historical budgeting, finance or accounting
     documents to identify what the dollars would
13
     have been spent on, because you say, "I just
14
     know they would have been spent on something
15
     else," how do you know that they would have
16
     been spent on something else?
17
                  MR. SOBOL: Objection. Asked
18
            and answered.
19
                  THE WITNESS: Well, this partly
2.0
            is -- pardon the expression -- common
21
            sense. For a household, for a
22
            corporation, for a government
23
            division, for the United Nations, for
24
            the federal government, if funds are
25
           not devoted to something in
```

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```
things.
                  MR. SOBOL: Objection.
3
     OUESTIONS BY MR KEYES.
                  Not that they would have,
     because I already asked you the "would have"
     questions, and you said you'd need to look
     into that.
                  MR. SOBOL: Objection.
9
     QUESTIONS BY MR. KEYES:
10
                  So when you say you did speak
11
     with and find evidence in the deposition of
12
     that -- testimony that confirms the presence
13
     of alternative uses, you are flagging
14
     alternative possibilities, correct?
15
                  MR. SOBOL: Objection. Asked
16
           and answered.
17
                  THE WITNESS: Well, there's two
18
           things I spoke about. The first one
19
           was more general in a way, the
2.0
           economics of scarcity that talks about
21
           the availability of funds devoted to
22
           alternative uses.
23
                  With respect to some of the
24
           diversion, there was more specifics in
           some of the testimony, some of the
```

```
deposition testimony, that had to do
            with police officers who may have
            spent -- had to spend time on
            opioid-related activities, who,
            according to the testimony that I
            remember, they not only could have but
            would have been attending to rapes and
            murders.
                   So it's -- I mean, the
            could/would -- I hope I'm answering in
11
            the could/would space that you're
12
            asking about here.
13
     QUESTIONS BY MR. KEYES:
14
                  And the deposition testimony
15
     that you're referencing now is the deposition
16
     testimony you mentioned in your report?
17
            Α.
                  That's correct.
18
            Ο.
                  And you said a moment ago you
19
     spoke with people.
20
                   Who did you speak with?
21
                   I thought you said a week ago
22
     you spoke with Compass Lexecon, but you
23
     didn't speak with anyone from Cuyahoga County
24
     or Summit County.
                  Well, I did --
25
           Δ
```

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```

```
Α.
                   I'm not sure.
                   How many rapes or murders were
            Ο.
     not prosecuted because of opioid-related
3
     spending?
           Α.
                  I'm not sure.
                  How many rapes or murders were
     not resolved because of opioid-related
     spending?
9
            Α.
                  I'm not sure.
10
                  Can you identify for me a
11
     single rape or murder that wasn't
     investigated, wasn't prosecuted and wasn't
12
13
     resolved because of opioid-related spending?
                   MR. SOBOL: Objection. Form.
14
15
                   THE WITNESS: I'm sorry, I
16
            can't name names of the victims here.
17
     QUESTIONS BY MR. KEYES:
18
                   And when you spoke to people
19
      earlier, you listed those interviews in your
2.0
      report, correct?
21
            Α.
22
                   And the people you list in your
23
     report all work for Cleveland, correct?
24
                   So as we discussed a week ago,
```

```
MR. SOBOL: Objection.

What's the question?

QUESTIONS BY MR. KEYES:

Q. Who'd you speak with?
```

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5 MR. SOBOL: About?
6 THE WITNESS: I don't remember
7 the names

8 QUESTIONS BY MR. KEYES:

9 Q. And you don't remember their

10 titles, correct?

11 A. No, I'm not so good on that

12 either. Sorry.

13 Q. And you don't remember their

14 functions, correct?

15 A. Well, there was some public 16 safety people. There was some EMS people.

17 There was some fire department people.

18 Q. Do you have any better

19 recollection of any of those conversations

20 today than you had a week ago?

A. Not really, no, sorry.

Q. Okay. And for the example you

gave, how many rapes or murders were not

24 investigated because of opioid-related

25 spending?

21

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```
you did not talk to anyone who works for
     Summit County or Cuyahoga County, correct?
3
                  MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: I think we --
           when we talked about this a week ago,
           there was some phone calls. I don't
           remember the names and dates or even
           how many I was on.
     QUESTIONS BY MR. KEYES:
10
11
                  Did you study whether any of
12
     the affected divisions in any particular year
13
     would have saved the money if they had not
14
     spent it on opioid-related expenditures?
15
                  MR. SOBOL: Objection. Asked
16
           and answered.
17
                  THE WITNESS: Again, the
18
           principle of opportunity costs implies
19
           that the right way to go about this
2.0
           from an economic point of view is to
21
           identify the magnitude of funds that
22
           are devoted to the opioid-related
23
           activities.
24
                  And what the alternatives to a
           particular division are will vary.
```

```
And so long as they have alternative
            uses for the funds, the right metric
            of opportunity cost is the metric that
            I applied in my report.
                   So I don't need to know whether
            they saved it or they spent it.
     OHESTIONS BY MR KEYES.
                   For 2006, did the Summit County
     ADM Board spend all of the money in its
      approved budget?
11
                   MR. SOBOL: Objection.
12
                   THE WITNESS: I would have to
13
            go back and look.
14
     QUESTIONS BY MR. KEYES:
15
                   Was that relevant to your
16
     analysis, whether the Summit County ADM Board
17
     spent all of the money in its approved budget
     in 2006?
18
19
           Α.
                   Well, I was able to identify
20
     opportunity costs in that case by examining
21
     the opioid-related activities and the cost of
22
     those activities, without knowing how the
23
     funds otherwise would have been used.
24
                   So just to complete your --
25
     complete the answer to the question, it
```

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```

```
Board spent all of the money in its approved
2
     budget?
3
                   MR. SOBOL: Objection. Asked
            and answered.
                   THE WITNESS: Again, this is --
            in order for me to do my job and to
            measure the opportunity cost of funds
            that were devoted to opioid-related
            activities, it wasn't necessary for me
10
            to investigate what other uses there
11
            would have been for those funds, other
12
            than to establish, yes, there would be
13
            other uses for those funds.
14
     QUESTIONS BY MR. KEYES:
15
            ο.
                  And when you --
                   And just -- excuse me.
16
17
                   And the details of what the
18
      funds would have been devoted to are -- I
19
     don't need to know those in order to measure
2.0
     opportunity costs.
21
                   When you tell me that it wasn't
22
     necessary to do it, you're explaining why you
23
     did not do it, correct?
24
                   Is it accurate to say that you
```

```
wasn't necessary for me to know whether they
      spent or overspent their budget.
                  Did you investigate whether,
      for any year between 2006 and 2018, the
      Summit County ADM Board spent all of the
     money in its approved budget?
7
                  MR. SOBOL: Objection.
                   THE WITNESS: Well, this is
            similar to the question about a
            particular year.
11
                   In order to do my job and
12
            estimate opportunity cost, it's
13
            sufficient for me to measure the funds
14
            devoted to opioid-related activities.
15
                  How much they were spending on
16
            other activities, how much they
17
            were -- the budget, the fund balance
18
            went up and down, is not something I
19
            needed to know in order to come up
2.0
            with reliable, principled, definite
21
            measure of opportunity costs.
22
     OHESTIONS BY MR KEYES.
23
                   Is it accurate to say that you
24
     did not investigate whether, for any year
25
     between 2006 and 2018, the Summit County ADM
```

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```
did not investigate whether, for any year
     between 2006 and 2018, any of the Summit
     County affected divisions spent all the money
     in their approved budgets?
                  MR. SOBOL: Objection.
                  THE WITNESS: So in order to
6
           make sure someone watching this or
           reading the transcript has a complete
9
           answer and a complete understanding of
10
           what I did, to the question, I need to
11
           explain briefly that the principle of
12
           opportunity cost, which is the way an
13
           economist thinks about these kind of
14
           situations, implies that what I should
15
           investigate and what I should measure
16
           are the funds devoted to
17
           opioid-related activities. Then I
18
           have what I need to know.
19
                  And it's not necessary for me
2.0
           to go to an alternative world in which
21
           the funds would have been available
22
           and might have been spent on something
23
           else, other than to establish that
24
           they would have been available and
           could have been spent on something
```

else. QUESTIONS BY MR. KEYES: 3 When you tell me that it wasn't necessary to do it, you're explaining why you did not do it, correct? I thought that would be important for the audience to know. Is it accurate to say that you did not investigate whether, for any year between 2006 and 2018, any of the Cuyahoga 11 County affected divisions spent all the money 12 in their approved budgets? 13 MR. SOBOL: Objection. Asked 14 and answered. 15 THE WITNESS: Well, the answer 16 to that would be exactly the same as I 17 gave for the other county a few 18 minutes ago. 19 OUESTIONS BY MR. KEYES: 20 At any time in 2006, did the 21 Summit County ADM Board seek permission to 22 spend dollars beyond its approved budget on 23 any opioid-related need? 24 This is another version of the 25 question we've been discussing today, and in

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```
OUESTIONS BY MR. KEYES:
2
                  No, you have your speech, and
3
     if you're going to give the speech in
     response to every question, that's fine. But
     I'm just trying to get a clear yes or no
     answer to these questions, and you keep
     giving me a long explanation why it's not
     necessary
9
                   At any time between 2006 and
10
     2018, did the Summit County ADM Board seek
11
     permission to spend dollars beyond its
12
     approved budget on any opioid-related need?
13
                   MR. SOBOL: Asked and answered.
14
            Objection.
15
                   THE WITNESS: Now, I'm very
16
            aware that we've been round and round
17
            on versions of this question. The way
1.8
            I want to answer the question is to
19
            make sure that if some viewer or
2.0
            reader sees only a sound bite of my
21
            testimony, that they understand what I
22
            did and why I did it.
2.3
                   And I have said it a number of
24
            times today, but, you know, within the
            context of any particular question, I
```

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```
order for me to identify the opportunity
     costs of the funds they actually spent, it's
3
     not necessary for me to know what they may
     have wished to do, wanted to do, sought
     permission to do, in order to accurately
     identify what the opportunity cost of the
     funds they actually spent are.
                  And again, when you tell me
     that it wasn't necessary to do it, you're
10
     explaining why you did not do it, correct?
11
                  I think that's important for
12
     the audience to hear.
13
           Ο.
                  At any time between 2006 and
14
     2018, did the Summit County ADM Board seek
15
     permission to spend dollars beyond its
16
      approved budget on any opioid-related need?
                  MR. SOBOL: Objection.
17
18
                  THE WITNESS: Okay. So to
19
           understand my answer to this question,
2.0
            it's important to keep in mind that
21
            I'm applying the well-established
22
            economic principle -- pardon me for
23
            laughing; it's your fault -- of
24
            opportunity cost.
25
```

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```
want to make sure it's been stated.
                  And to reiterate, my assignment
           in this case was to come up with a
           reliable estimate of the opportunity
           cost of funds that were devoted to
           opioid-related activities. That's
           what T did.
                  And in order to do that, it
9
           wasn't necessary for me to know
10
           whether the departments might have
11
           preferred to do something else,
12
           whether they might have over or
13
           underspent on any particular thing,
14
           whether they would have changed an
15
           account, a program. All those things
16
           are not necessary in order to just
17
           follow through in a very common sense
18
           thing of how much did they -- what was
19
           the cost of opioid-related activities
2.0
           in this division, in this year, is
21
           what they spent on those things.
22
                   If they didn't spend that, they
23
           would have had money to do something
24
           else.
25
```

```
QUESTIONS BY MR. KEYES:
2
                  Did you investigate whether, at
     any time between 2006 and 2018, any of the
     Summit County or Cuyahoga County affected
     divisions sought permission to spend dollars
     beyond their approved budget on any
     opioid-related need?
                  MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: I'd just like to
11
           refer to my previous answer, if you
           find that --
                  MR. SOBOL: No. if you have --
14
           what previous answer?
15
                  MR. KEYES: The one you just
           said was asked and answered. It
17
           wasn't asked and answered. This is a
18
           distinct question.
     OUESTIONS BY MR. KEYES:
19
20
                  You want to incorporate your
21
     last answer, but I want the record to be
22
     clear Professor McGuire
23
           Α.
                  Okay.
24
           Ο.
                  So you did not investigate
25
     whether at any time, in any year between 2006
```

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```
sought to do something different.
                   The opportunity cost is a very
3
            common sense approach that says, what
            is the opportunity cost of the
            $200,000 that this division spent on
            opioid-related activities. It's
            $200,000. They would have had that
            money to do something else.
                   And it's sufficient to -- in
10
            application of the opportunity cost
11
            concept to be able to identify the
12
            magnitude of those funds and to
13
            establish they could have done
14
            something else with those funds.
15
                  And that's what I did.
     QUESTIONS BY MR. KEYES:
16
17
                  And so that prior answer, you
18
     were explaining why you did not conduct that
19
      investigation I asked about, correct?
2.0
                   MR. SOBOL: Objection. Asked
21
            and answered.
22
                   THE WITNESS: I was trying to
2.3
            give a complete answer so the audience
24
            would understand what I did.
```

```
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```

```
and 2018, any affected division of either
      Summit County or Cuyahoga County sought
     permission to spend dollars beyond their
     approved budget on any opioid-related need,
     correct?
                   MR. SOBOL: Objection.
7
            Objection. Form. Also objection.
           Asked and answered.
                  You give any form of an answer
            you would like.
11
                   THE WITNESS: Okay. I'd like
12
            to give a complete answer to the
13
            question for a reader to understand my
14
            response to your very general
15
            question.
16
                   And my answer is that for me to
17
            fulfill my assignment in this case,
18
            it's sufficient for me to know what
19
            each division, in each year, in each
2.0
            county, spent on opioid-related
21
            activities, which was the focus of my
22
            report: to identify those funds.
23
                  It was not necessary for me
24
            to know whether any division, in any
            year, in either of the counties,
25
```

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```
OUESTIONS BY MR. KEYES:
2
                  Right.
3
                  And the audience should
     understand that you didn't do it, and you
     were giving the reasons why you didn't do
6
     it --
                  MR. SOBOL: Objection.
7
     OUESTIONS BY MR. KEYES:
9
           Ο.
                  -- right?
10
                  MR. SOBOL: What's the...
11
                   THE WITNESS: Well, I'm -- I
12
           was just trying to give a complete
13
           answer. I needed to explain a little
14
           bit about what opportunity cost was,
15
           what the nature of my assignment was,
16
           what I need to know in order to do
17
           that.
18
                   It just doesn't take very long
19
           for me to say it. I'm pretty
2.0
           practiced at it now. But I think it's
21
           something for the audience that they
22
           need to hear.
23
     QUESTIONS BY MR. KEYES:
24
                  Right.
25
                   But again, you told me what was
```

```
sufficient. You told me what wasn't
     necessary.
3
                   I want to know whether --
     regardless of whether it's necessary or not,
     did you do it. Did you investigate at any
     time, for any year between 2006 and 2018, for
     any affected division for either Summit
     County or Cuyahoga County, whether they
     sought permission to spend dollars beyond
     their approved budget on any opioid-related
11
     need?
12
                   MR. SOBOL: Objection.
13
     QUESTIONS BY MR. KEYES:
14
                   Did you do it?
15
                   MR. SOBOL: Objection. Asked
16
            and answered.
                   You may give an answer in any
17
18
            form you think appropriate.
19
                   THE WITNESS: First of all, I
2.0
            don't see any distinction between the
21
            question you just asked and the
22
            question I referred to a few moments
23
            ago as being a very general question.
                   And it seems like it's an
24
            important question, so in order to
```

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```
OUESTIONS BY MR. KEYES:
2
                  Did you investigate whether at
3
     any time, for any year between 2006 and 2018,
     any of the affected divisions for either
     Summit County or Cuyahoga County sought
     permission to spend dollars beyond their
     approved budget on a need not related to
     opioids?
9
                   MR. SOBOL: Objection. Asked
10
            and answered.
11
                   You may give an answer in any
12
            form that you'd like.
13
                   THE WITNESS: I see this
14
            question as being slightly different.
15
            It's also a general question.
16
                   The difference here is, it's
17
            the non-related activities as opposed
18
            to the opioid-related activities, if
19
            I'm following.
2.0
     QUESTIONS BY MR. KEYES:
21
                  Correct.
22
                   Okay. And it's also an
23
     important question, one I want to make sure I
24
     give a thorough answer to.
                   In order for me to fulfill my
```

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```
address it, I want to be sure to give
            a complete answer to the question.
                   In order for me to do my
            assignment in assessing the
            opportunity cost for each division,
            for both counties, for all the years,
            it was necessary for me to identify
            the funds devoted to opioid-related
                  And that's what I did in my
11
            report. And that was sufficient to
12
            identify the opportunity cost of those
13
            funds.
14
                   I didn't need to know whether
15
            any of those divisions in either of
16
            the counties, in any of the years,
17
            sought to do something different with
18
            their funds.
19
                  The opportunity cost number is
2.0
            a very common sense concept. If a
21
            division spends $200,000 on
22
            opioid-related activities in 2007,
23
            they could do something else with that
            money. The $200,000 is the
24
25
            opportunity cost of those funds.
```

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```
assignment in this report, which is to
     identify the opportunity cost of the funds
3
     devoted to opioid-related activities, it was
     sufficient for me to -- in each county, for
     each division, for each year, to identify the
     funds that were spent on opioid-related
     activities for that year.
                  I did not need to know what
9
     might else have been done with those funds
10
     had their spending not taken place. So it
11
     wasn't necessary for me to know whether the
12
     divisions, in the years and the counties, had
     made some application for additional funds.
13
14
                  The money spent on the
15
     opioid-related crisis is a very common sense
     measure of opportunity costs. If they spend
16
17
     $200,000 on opioid-related activities and
18
     they didn't have to spend that money, they
19
     would have had $200,000 to spend on something
2.0
     else.
21
                  That's, you know, in short what
22
     I did.
23
                  When you said in your prior
24
     answer that it wasn't necessary to do it, you
     were explaining why you did not do it,
```

```
MR. SOBOL: Objection. Asked
            and answered.
                  THE WITNESS: Well, I was
            explaining some of the basis for that,
            that -- what opportunity cost was,
            what was and was not necessary for me
            to determine that. You know, I think
            it's important for the reader or the
            viewer to hear that.
11
     QUESTIONS BY MR. KEYES:
12
                  Did you identify any instance
13
     where at any point in time between 2006 and
14
     2018 any of the affected divisions for either
15
     Summit County or Cuyahoga County sought
16
     permission to spend dollars beyond their
17
     approved budget on a need related to or not
     related to opioids?
18
19
                  MR. SOBOL: Objection. Asked
2.0
            and answered
21
                  You may answer.
22
                  THE WITNESS: Truthfully -- of
23
            course, I've been truthful all
24
            morning, but I don't -- this seems to
25
            be a compound of two other questions
```

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```
But you may answer.
                  THE WITNESS: Well, let me give
           a fresh answer just to avoid the back
           and forth about whether I've answered
           it already.
                   It seems like it's an important
           question, it's a general question, and
           I want to make sure I give a complete
           answer to this.
10
                  What I needed to do to fulfill
11
           my assignment was to identify for each
           division in each county, for all the
12
13
           years involved, what the
14
           opioid-related spending was in that
15
           division. That's the basis for an
16
           economist to determine what the
17
           opportunity cost of those funds are.
1.8
                  What's not necessary for me to
19
           do is to know what else might have
2.0
           happened had those funds not been
21
           spent on opioid-related activities.
22
                   So I didn't need to know
2.3
           whether divisions had submitted budget
24
           proposals or what particular other
           activities they would have done in a
```

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```
that you asked earlier, those -- the
            request with respect to opioids and
            the request with respect to other
            things.
     QUESTIONS BY MR. KEYES:
                  I asked whether you identified
     any instance, before I asked whether you
      investigated, and you told me your reasons
      for not investigating.
           Α.
11
                  Now I'm asking: Did you at any
     point in this engagement identify any
13
     instance, at any point in time between 2006
14
     and 2018, when any of the affected divisions
15
     for either Summit County or Cuyahoga County
16
     requested permission to spend dollars beyond
17
     their approved budget, either to meet an
18
     opioid-related need or to meet a
19
     nonopioid-related need?
20
                  MR. SOBOL: Objection. Asked
21
            and answered and compound.
22
     OUESTIONS BY MR KEYES.
23
                  Any instance?
24
                  MR. SOBOL: Objection. Already
25
            asked and compound.
```

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```
hypothetical had the funds not been
           spent on opioid-related activities.
           It was sufficient for me to know the
           magnitude of those funds.
                  And I think it's a very common
           sense concept that if a division is
           spending $200,000 on opioid-related
           activities in a year, if they don't
9
           have to spend that, the $200,000 would
10
           be available for something else.
11
           That's really all -- that's the kind
12
           of main point I'm making with the idea
13
           of opportunity cost.
     QUESTIONS BY MR. KEYES:
14
15
                  Did you find a single example
16
     of an affected division saying that it was
17
     not able to meet a need because funds had
18
     been redirected to cover an opioid-related
19
2.0
                  MR. SOBOL: Objection. Asked
21
           and answered.
22
                  THE WITNESS: This is also a
23
           pretty general question, and I want to
24
           make sure to give a complete answer to
           the question.
```

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In order for me to do my work, what I needed to do was identify the opioid-related spending. To an economist, that opioid-related spending is opportunity cost. And if those funds had not been devoted to opioid-related activities, they could have been devoted to something else. I don't need to know what officials in the divisions might have 11 identified as their priorities for those funds but only to -- you know. only to note that those funds do have 14 alternative uses. And if \$200,000 is 15 devoted to opioid-related activities 16 in a particular division in a 17 particular year, had those funds not 18 been used for opioid-related 19 activities, they would have been 2.0 available for something else. 21 It's not rocket science. It's 22 pretty straightforward that they spent 23 \$200,000 on opioids. If they didn't 24 have to spend that, they would have 25 had the money for something else.

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```
injury. It's a little unclear to me
            what that means in this context.
3
     OHESTIONS BY MR KEYES.
                  Are you offering any opinion
4
            Ο.
     that Summit County or Cuyahoga County
     suffered any injury or harm because it wasn't
      able to spend money on something because it
     was spending that money on an opioid-related
9
     service?
10
                   MR. SOBOL: Objection. Asked
11
            and answered.
12
                   THE WITNESS: I think I can at
13
            least somewhat address your question,
14
            and if I'm missing in my answer, then
15
            please let me know.
16
                   It's also a very general
17
            question, and it sounds like an
1.8
            important question to me, so I want to
19
            be sure to give a complete answer to
2.0
            the question.
21
                   What I needed to do in my
22
            report was to identify the opportunity
2.3
            cost of funds that were devoted to
24
            opioid-related activity, and that's
            what I did in my report.
```

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```
That's the idea of opportunity cost.
      OUESTIONS BY MR. KEYES:
                  Did the Summit County or
     Cuyahoga County government incur any injury
     because it wasn't able to spend money on
      something because it was spending those
     dollars on an opioid-related service?
                   MR. SOBOL: Objection. Asked
           and answered and form.
10
                   You may answer.
11
                   THE WITNESS: Can you clarify
12
            what injury means in this context?
13
     QUESTIONS BY MR. KEYES:
14
            Ο.
                  Harm.
15
           Α.
                   I thought you might say that.
                  Did Summit County or Cuyahoga
16
17
     County government incur any harm because it
18
     wasn't able to spend money on something
19
     because it was spending those dollars on an
20
     opioid-related service?
21
                  MR. SOBOL: Objection. Asked
22
           and answered Form
23
                   THE WITNESS: I know you've
24
            told me injury is the same as harm,
25
            and earlier harm was the same as
```

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```
It was not necessary for me to
            identify what other activities the
            funds would have been spent on or what
            the value of those other activities
            were; only to note that there are
            alternative uses for the funds that
            were devoted to opioid-related
            activities, and the officials in the
9
            division would have done something
10
            else with the money.
11
                  And so an economist is asked:
12
            What is the metric or the measure of
13
            those opportunity costs?
14
                   And it's a very natural,
15
            down-the-middle-of-the-plate,
16
            not-rocket-science part of economics,
17
            which is, that if a household spends
18
            $75 on a car repair or a division
19
            spends $200,000 on an opioid-related
2.0
            activity, that is the opportunity cost
21
            of those funds.
22
                   That told me what I needed to
23
            know, and that's what I did.
24
     QUESTIONS BY MR. KEYES:
25
                  Now, Professor McGuire, you
```

know, you've said that, I bet, a few hundred times between last Tuesday and today. And you're an expert for the plaintiffs, and I'm entitled to probe whether you're offering an opinion or not. So this question is a yes or no question, and I am asking you to answer it yes or no, and then you can provide whatever explanation you think is appropriate. Are you offering an opinion 11 that Summit County or Cuyahoga County 12 suffered any injury or harm because the 13 county wasn't able to spend money on 14 something else because it was spending money 15 on opioid-related services? 16 MR. SOBOL: Objection, first, 17 to the speech. I'm not sure if in the 18 question you intend the witness to 19 adopt your speech or not. 2.0 Objection to the form, because 21 you haven't defined injury or harm. 22 And compound. 23 THE WITNESS: Well, I have been 24 attempting to answer your question as 25 clearly and as completely as I can in

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```
Again, you may answer in any
           format you'd like, despite the speech
3
           by counsel.
                   THE WITNESS: Okay. This is
           returning to that very general and, it
           seems to me, potentially important
           question; that I think it's important
           for a viewer or a reader to understand
           what I did and why I did it.
10
                   And what I did in order to
11
           fulfill my assignment was to identify
12
           the funds that were devoted to
13
           opioid-related activities. That's
14
           what corresponds to the tried and
15
           true, well-accepted, down-the-middle-
16
           of-the-plate concept of opportunity
17
           cost.
1.8
                   The opportunity cost of those
19
           funds can be identified and measured
2.0
           without investigating what a
21
           particular division in a particular
22
           county in a particular year would have
2.3
           done in an alternative world in which
24
           those funds were not devoted to
           opioid-related crises.
```

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```
the order in which I think it's most
            informative to provide the
            information.
                   And that order starts with what
            was needed for me in order to complete
            my assignment. And then when I go on
            to say -- that's what I need to know.
            Then I say it was not necessary for me
            to investigate that.
                   I think -- I didn't mean that
11
            to not be answering your question.
            When I say it wasn't necessary for me
13
            to investigate, then I didn't
14
            investigate it.
15
     OUESTIONS BY MR. KEYES:
                  So you did not investigate
16
17
     whether either Summit County or Cuyahoga
18
     County suffered any injury or harm because
19
     they spent money on opioid-related services
20
     rather than something else --
21
                  MR. SOBOL: Objection.
22
     QUESTIONS BY MR. KEYES:
23
                   -- correct?
                  MR. SOBOL: Objection. Asked
24
25
            and answered
```

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```
So when I come up with a
           measure $200,000 were devoted to
           opioid-related activities in a
           division in a year, that tells me what
           I need know. I don't need to, and I
           didn't investigate, the particulars of
           what else they would have done with
           the funds
9
     OUESTIONS BY MR. KEYES:
10
                  You identify that $200,000 as
11
     an opportunity cost.
12
                  MR. SOBOL: Objection.
13
                  Is there a question?
14
     QUESTIONS BY MR. KEYES:
15
           Ο
                  Correct?
16
           Α.
                  Yes.
17
                  And you are not offering an
18
     opinion that that $200,000 is a harm or an
19
     injury to either Summit County or Cuyahoga
2.0
     County, correct?
21
                  MR. SOBOL: Objection. Asked
22
           and answered.
23
                  THE WITNESS: Well, you're
24
           coming back to the harm and injury,
           and you say harm is injury, injury is
```

```
harm. Neither of those are very
            helpful to me as an economist.
                  And given the nature of this
            question, could you please clarify
            what harm and injury means in this
     QUESTIONS BY MR. KEYES:
                  Are you saying that harm is not
     meaningful to you as an economist?
                  MR. SOBOL: Objection.
11
                  THE WITNESS: I'm saying in
12
            this context, I'm not sure what you're
13
           asking.
14
     QUESTIONS BY MR. KEYES:
15
                  In the context of this
16
     engagement, are you saying that harm is not a
17
     meaningful concept to you?
18
                  MR. SOBOL: Objection. Asked
19
           and answered.
2.0
                  THE WITNESS: I'm saying in the
21
            context of this question, I'm not sure
22
            what you're referring to.
23
     QUESTIONS BY MR. KEYES:
24
                  Well, do you have an
25
     understanding of what harm means in the
```

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# $\hbox{\tt Highly Confidential - Subject to Further Confidentiality Review}\\$

```
QUESTIONS BY MR. KEYES:
                  Did you study harm?
3
                   MR. SOBOL: Objection. Asked
            and answered.
                   THE WITNESS: Without telling
           me what it is, I can't tell you.
     QUESTIONS BY MR. KEYES:
8
                  Did you study any harm?
9
                   MR. SOBOL: Objection. Asked
10
            and answered.
11
                   THE WITNESS: Without you
            telling me what you mean by the word,
12
13
            I can't tell you.
     QUESTIONS BY MR. KEYES:
14
15
                  Well, sir, you say on page 4 of
16
     your report, you say, quote, "I refer to the
17
      adverse health, public welfare, public health
18
     and criminal justice consequences of the
19
     opioid epidemic as harms."
2.0
                   You use the term "harms,"
21
     right? That's in your report.
22
            Α.
                   This is Exhibit 1?
2.3
                  Yes, page 4.
            Ο.
24
                  One second.
                  Middle of the page, two
```

```
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     context of the opinions that you're offering
     regarding damages here?
                  I understand what damages are.
     I understand what opportunity costs are, as I
     used it in my report. But I'm -- if that's
     what you mean, if you mean harm equals
     damages, then please tell me. If you mean
     harm equals opportunity cost, please tell me.
     If you mean harm equals something else, then
10
     please tell me that.
11
                  Well, my question was: Do you
           Ο.
     have an understanding of what harm means in
13
     the context of the opinions that you're
14
     offering regarding damages here?
15
                  MR. SOBOL: Objection. Asked
16
           and answered.
17
                  THE WITNESS: I don't have
18
           anything to add. This is -- I'm not
19
           meaning to be evasive. I'm just
20
           asking: In this context, what do you
21
           mean by harm?
22
                  I studied damages. I studied
```

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else?

23

24

25

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opportunity costs. Is there something

```
sentences before you begin paragraph 7, you
     say, "I refer to adverse health, public
     health, public welfare and criminal justice
     consequences of the opioid epidemic as
     harms."
                  Do you see that language?
           Α.
                  I see that, yes.
                  You use the term "harms."
           Ο
9
                  MR. SOBOL: Objection.
10
     OUESTIONS BY MR. KEYES:
11
           Ο.
                  Okay?
                  MR. SOBOL: Objection. Asked
12
13
           and answered.
14
                  You may answer.
15
     OUESTIONS BY MR. KEYES:
16
                  So when you said before you
17
     don't know what harm means, I'm trying to
18
     reconcile that with the statements in your
19
     own report.
2.0
                  MR. SOBOL: There's no question
21
           before you.
22
     QUESTIONS BY MR. KEYES:
23
                 So are you still saying you
24
     don't know what harm means --
                  MR. SOBOL: Objection.
```

```
QUESTIONS BY MR. KEYES:
                   -- in the context of this case?
                   MR. SOBOL: Objection.
3
            Misleading, because it
            mischaracterizes his previous
            testimonv.
                   If you'd like to ask him what
            is meant by that section of his report
            regarding the plural harms, you may.
                   THE WITNESS: I'm sorry, what
11
            question is pending?
12
     QUESTIONS BY MR. KEYES:
13
                  So are you still saying you
14
     don't know what harm means in the context of
15
     this case?
16
                   MR. SOBOL: Objection. Asked
17
            and answered.
                   THE WITNESS: I think what I
18
19
            said was I didn't understand the way
2.0
            you were using harm in the question.
21
     QUESTIONS BY MR. KEYES:
22
                  Did vou investigate whether
23
     Summit County or Cuyahoga County governments
24
     suffered any injury or harm because they
25
     spent money on opioid-related services rather
```

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```
consequences of the opioid epidemic as
            harms."
3
                   So if I'm interpreting your
            question correctly, when you say "the
            county governments," were they
            affected, governments don't have
            health. Governments don't have
            welfare. They are engaged in
9
            activities related to public health,
10
            health and public welfare that
11
            involves spending money on those
12
            things.
13
                   So if you're asking me as part
14
            of your question, did the health of
15
            county government, was that harmed by
16
            opioid-related activities, that
17
            question doesn't make sense to me.
1.8
                   If you're asking me with
19
            respect to the activities of the
2.0
            county governments, was their spending
21
            on health or public health affected,
22
            that question does make sense to me,
2.3
            and I address it in this report in the
24
            form of studying opportunity cost.
```

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```
than something else?
                   MR. SOBOL: Objection. Asked
           and answered.
                   THE WITNESS: I remember that
            question, and I believe my response
            was to request from you a
           clarification of what you mean in your
            question by harms and injury.
     OUESTIONS BY MR. KEYES:
10
                  Using the concept of harms that
11
     you discuss in your report, did you
12
     investigate whether Summit County or Cuyahoga
13
     County governments suffered any injury or
14
     harm because they spent money on
15
     opioid-related services rather than something
16
     else?
17
           Α.
                  Okay.
18
                  MR. SOBOL: Objection.
19
           Compound.
20
                   You can answer.
21
                  THE WITNESS: All right. So
22
            now we're referring to my report,
23
            page 4, where I say, "I refer to the
            adverse health, public health, public
24
25
            welfare and criminal justice system
```

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```
OUESTIONS BY MR. KEYES:
                  When you refer to adverse
3
     health, public health, public welfare and
     criminal justice consequences of the opioid
     epidemic as harms, are you saying that those
     are harms suffered by Summit County or
     Cuyahoga County governments?
           Δ
                  Governments?
9
                  Well, I tried to address this
     in my previous answer. And if we take just
10
11
     the first of these, health, if what you mean
12
     by affecting the health of a county
13
     government, that doesn't make sense to me
14
     because governments don't have health.
15
                  What governments do is spend
     money on things. And if -- let me put it
16
17
     this way. With respect to the issue of
18
     whether the opioid epidemic caused government
19
     to spend money on health, then that's what my
2.0
     report is about.
21
                  Right. Right.
22
                  So when you refer in the
23
     sentence to adverse health, public health,
24
     public welfare and criminal justice
     consequences of the opioid epidemic as harms,
```

```
you are not referring to them as harms to the
     Summit County or Cuyahoga County governments,
3
                  MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: No, that's not
           what T said
     QUESTIONS BY MR. KEYES:
                  You talked about cost
     consequences of the harms. I'm asking about
11
     the harms that you refer to. Are those harms
12
     to the Cuyahoga County or Summit County
13
     governments?
14
                  MR. SOBOL: Objection. Asked
15
           and answered.
                  THE WITNESS: I don't have too
16
17
           much -- I don't have anything new to
18
           say about this, but let me say what I
19
           said again.
2.0
                  With respect to health and
21
           whether there were any harms
22
           associated with health to county
23
           governments, that doesn't make sense
           to me as a question. Governments
24
25
           don't have health. What governments
```

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```
Ο.
                   You say, "Finally, upon
     instruction from counsel, I refer to the cost
3
     consequences of harms to the bellwether
     governments due to defendants' misconduct as
4
     damages."
6
                   Do you see that sentence?
            Α.
                   I see that, yeah.
            0
                   Did you write that sentence?
            Α.
                   I absolutely wrote that
10
     sentence.
11
            Ο.
                   Did you write the prior
12
     sentence?
13
            Α.
                   I absolutely wrote the prior
14
     sentence.
15
            ο.
                   You told me already you wrote
16
     the whole report, correct?
17
            Α.
                   I did, yes.
18
                   Okay. So focusing on this
19
     sentence, "I refer to the cost consequences
20
     of harms to the bellwether governments."
21
                   Do you see that phrase?
22
                   I see that.
                   You are talking about the cost
23
24
     consequences to the bellwether governments,
     not the harms to the governments, correct?
```

```
do is spend money on things and --
           including spending money on health.
                  So to the extent that your
           question is about harms in the form of
           the opioid crisis leading to spending
           consequences for the county
           governments, I do address that in my
           report at some length.
     OUESTIONS BY MR. KEYES:
10
                  When you then refer to the cost
11
     consequences of harms to the bellwether
12
     governments, you are talking about the cost
13
     consequences to the governments, not the
14
     harms to the governments, correct?
15
                  MR. SOBOL: Objection. Asked
16
           and answered.
17
                  THE WITNESS: I don't know.
18
           You're attempting to sort of dissect
19
           these words. I'm not -- maybe you
20
           could break it down or something. I'm
```

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your report.

Q.

21

22

23

24

25

#### Highly Confidential - Subject to Further Confidentiality Review

I'm looking at two sentences in

not really following.

Yes

OHESTIONS BY MR KEYES.

```
MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: I'm -- well the
           sentence says what I mean. I'm not --
5
     OUESTIONS BY MR. KEYES:
6
                  You're talking about the cost
     consequences of harms, which consequences you
     say are borne by the governments.
9
                  MR. SOBOL: Objection.
                  THE WITNESS: The sentence
10
11
           says, "I refer to the cost
           consequences of harms" as damages.
12
13
     QUESTIONS BY MR. KEYES:
14
                  Right.
15
                  And those cost --
16
                  Okay.
17
                  Those cost consequences that
18
     you're referring to are what you've
19
     identified as the opportunity costs?
2.0
                  MR. SOBOL: Objection. Asked
21
           and answered.
22
                  THE WITNESS: That's generally
23
           correct, yes.
24
     QUESTIONS BY MR. KEYES:
                  Okay. And those are
```

```
opportunity costs that you say were borne by
     Summit County and Cuyahoga County government
     as a result of the harms that you say result
     to the communities of the opioid epidemic?
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, you're
           reading things that I didn't write
           here.
     OUESTIONS BY MR. KEYES:
                  I'm asking you a question about
11
     your opinions.
12
           Α.
                  Okay. I thought we were
13
     following along with the text here, but,
14
     sorry. Hit me with a question.
15
           Ο.
                  Well, you told me you couldn't
16
     explain the texts; you could only just keep
17
     referring to the text. So I'm expanding my
     questioning to give you different words to
18
19
     use.
20
                  You said you have identified
21
     the opportunity costs as the cost
22
     consequences, correct?
23
           A.
                 I said that, yes.
                  MR. SOBOL: Objection. Asked
24
25
           and answered.
```

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```
County government, correct?
                  MR. SOBOL: Objection.
3
           Mischaracterizes the testimony.
                  THE WITNESS: No, that's not
4
           what I said.
     OHESTIONS BY MR KEYES.
7
                  When I asked you before when
     you referred to these adverse health, public
     health, public welfare and criminal justice
10
     consequences of the opioid epidemic that you
11
     describe as harms, and so are those harms
12
     incurred or suffered by Cuyahoga County or
13
     Summit County, you said that didn't make any
14
     sense to you, right?
15
                  Well, when you talk about the
16
     Summit or Cuyahoga County governments, there
17
     was a sense in which it did not and a sense
18
     in which it did that I tried to explain in my
19
2.0
                  Have you visited Summit County
21
     at any point in connection with your work on
22
     this engagement?
23
                  I don't think I have, no.
24
                  Have you visited Cuyahoga
     County at any point in connection with your
```

```
Highly Confidential - Subject to Further Confidentiality Review
      QUESTIONS BY MR. KEYES:
                  And those are the cost
     consequences of harms, correct?
                  MR. SOBOL: Objection. Asked
           and answered.
                   Or asked and not understood.
           But either way, I object.
                  THE WITNESS: I think that's
           correct, yeah.
10
     QUESTIONS BY MR. KEYES:
11
                  And those are the cost
     consequences borne by the Summit County and
13
     Cuyahoga County governments, correct?
14
           Α.
                  Yes.
15
                  And those are the cost
           Ο.
     consequences of harms that you've identified
16
17
     as adverse health, public health, public
18
     welfare and criminal justice consequences of
     the opioid epidemic, correct?
19
20
                  MR. SOBOL: Objection.
21
                  THE WITNESS: I think so.
22
     OUESTIONS BY MR KEYES.
23
                  And those are the harms that
```

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24

25

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you said didn't make any sense as being harms

suffered by the Cuyahoga County or Summit

```
work on this engagement?
           Α.
                  Yes.
3
           Ο
                  When did you visit Cuyahoga
     County?
                  Sometime in July.
                  Is that when you met with
     officials from Cleveland?
           Δ
                  Yes
9
                  Did you do anything else on
10
     that trip in connection with this engagement,
11
     other than meet with officials from
     Cleveland?
12
13
                  Not that I recall.
14
                  Have you visited Summit County
15
     for any reason since you were hired on this
16
     engagement?
17
                  No, I don't think so.
18
                  Have you visited --
19
                  I'm sure I didn't. I haven't
2.0
     been to Summit County.
21
                  Have you visited Cuyahoga
22
     County for any reason since you were hired on
23
     this engagement besides your meeting with the
24
     Cleveland officials?
                  No. I have not.
```

```
Have you ever been to Summit
     County?
3
                  Ever? Oh, gosh. I visited a
     number of counties in Ohio in some other work
     I did for the Ohio government. I know I
     would have been to Columbus. There were
     others. I can't remember which of the others
     T visited.
                  Other than your visit with the
     Cleveland officials in July, have you ever
11
     visited Cuyahoga County?
                  Well, in some previous work I
     did for the State of Ohio, I did some
     traveling, and it was at least Columbus, but
15
     I don't remember where else I would have
     visited.
17
           Ο.
                  Is Columbus in Cuyahoga County?
18
           Α.
                  No, it's not.
19
           Ο.
                  What county is it in?
2.0
                  Columbus. Is it Columbus
           Δ
21
     County? Sometimes they have the same name.
22
           Ω
                  Do vou know?
23
                  I don't recall the county.
           Α.
24
           Ο.
                  When were you first engaged on
25
     this case?
```

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#### Highly Confidential - Subject to Further Confidentiality Review

```
Α.
                  I don't remember.
                  Was it prescribed by your
           Ο.
3
     physician?
           Α.
                  Well, it was given to me -- you
     know, I don't remember if I had it leaving
     the hospital, whether I had to pick it up. I
     don't remember. But it was prescribed by a
     physician in either case. It would have
     been, I think, prescribed by my surgeon.
10
           Ο.
                  And you took it for two days?
11
           Α.
                  Yes.
12
           Ο.
                  What was the specific drug?
13
                  I don't remember.
                  MR. SOBOL: Objection. Asked
14
15
           and answered.
     QUESTIONS BY MR. KEYES:
16
17
                  And why did you take it for
18
     those first two days?
19
                  Because it was prescribed for
20
     me by my doctor.
21
                  What was it prescribed to you
22
     to do, as you understood it?
23
                  My understanding was that it
24
     was prescribed in order to deal with pain.
                  Did you have pain before you
```

Highly Confidential - Subject to Further Confidentiality Review Oh, in this case? You mean not the thing I was referring to in the past, but --Q. This case. -- this case. It would have been, I think, maybe late May or June of 2018. And when did you first start Ο. 10 working with Compass Lexecon in this 11 engagement? Α. Soon after that. Q. So also May or June of 2018? 14 Probably June. Α. 15 Have you ever used a Ο. prescription opioid? 16 17 Α. Yes. T have. 18 Ο. How many times? 19 What I -- this was in 20 connection with hip surgery. And I was given 21 some opioids to take home, which are 22 prescription opioids, that I took for about

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that you were prescribed?

23

24

25

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two days, and then I stopped taking them.

What was the particular opioid

```
took it?
                  I had a lot of pain before I
     had my surgery, and then, yeah, there was
     kind of pain throughout the process, yeah.
                  Did the prescription opioid
           Ο.
6
     that you took help with your pain?
                  Well, you know, it's hard to
     know. You're asking, you know, if someone
9
     takes a drug -- say you take an
     antidepressant. Did your antidepressant
10
11
     help? It's hard to know. It's not an
12
     individual question.
13
                  Maybe you don't -- still don't
14
     feel that great, but how would you have felt
15
     had you not taken the pill? You don't really
16
17
                  And so in this case I had some
18
     pain. If you asked me the counterfactual
19
     question of how much pain I would have had
     without the opioid, I really can't tell you.
21
           Q.
                  You said you stopped taking it
22
     after two days?
23
24
                  Did you have pain after you
     stopped taking it?
```

I had pain throughout the entire process, yes. 3 Did your pain increase after you stopped taking the prescription opioid? No, it didn't. Did you take something else to address the pain when you stopped taking the prescription opioid? Α. I also was, I think, requested -- or recommended to take, I think, 11 ibuprofen. And I don't remember whether I just continued on the regimen that was recommended to me or whether I increased that in response. I don't remember. 14 15 Ο. Why did you stop taking the prescription opioid after two days? 16 17 Α. I thought it was prudent, 18 frankly. 19 Ο. Whv? 20 Because opioids are dangerous 21 drugs, and I didn't want to take it any 22 longer than necessary. 23 Did you develop an addiction to Ο. 24 opioids? 25 Δ Nο

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```
the county?
2
                   MR. SOBOL: Objection. Asked
3
            and answered
                   THE WITNESS: It's kind of a
            funny question, that among all the
            things any of these divisions -- or in
            this case I think you're asking about
            the entire government -- would have
            spent only on opioid-related
10
            activities, so long as there are
11
            alternative uses for those funds, even
12
            if the government, in its wisdom,
13
            decides only to devote the funds to
14
            opioid-related activities, so long as
15
            there are other things the government
16
            could have done, then it's -- unless
17
            I'm misunderstanding your question,
18
            then, yes, it's the right measure of
19
            opportunity cost.
2.0
     QUESTIONS BY MR. KEYES:
21
                   And do I understand that under
22
     your approach in quantifying the opportunity
23
     costs, that if the county government had
24
     decided to spend nothing on opioid-related
     services, then there would be no opportunity
```

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```
How did you know that opioids
     are dangerous drugs and you shouldn't take it
3
     any longer than necessary?
                  I was just aware of that from
     my work as a health economist. This would
     have been, you know, two or three years ago,
     so well before I got involved in this matter.
                  Is this the only time you used
     a prescription opioid?
10
                  As far as I know, ves.
11
                  You can't think of anything
     before the hip surgery or after the hip
13
     surgery where you used a prescription opioid?
14
                  MR. SOBOL: Objection. Asked
15
           and answered.
16
                  THE WITNESS: No, I didn't use
17
           prescription opioids otherwise.
     QUESTIONS BY MR. KEYES:
18
19
                  Regarding your quantification
20
     of the opportunity costs in this case, do I
21
     understand you correctly that if either
22
     county government had decided to spend its
23
     entire budget on opioid-related services,
24
     then the opportunity costs that you describe
25
     as damages here would be the entire budget of
```

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```
costs?
2
                  MR. SOBOL: Objection.
3
                  THE WITNESS: Of course this
           is --
5
     OUESTIONS BY MR. KEYES:
6
                  And no damages using your
           Ο.
     formulation?
           Δ
                  Well, this is also a funny
9
     question, that they would have spent nothing.
10
     But in the case in which they literally spent
11
     nothing on opioid-related activities, then
12
     there was no sacrifice of other uses of the
13
     funds. So the appropriate measure of
14
     opportunity cost in that case would be zero.
15
                  And under your approach to
16
     quantifying opportunity cost, if the county
17
     government had decided to spend 50 percent of
18
     its total budget on opioid-related services,
19
     then you would say the damages are 50 percent
2.0
     of the budget?
21
                  MR. SOBOL: Objection. Asked
22
           and answered.
23
     QUESTIONS BY MR. KEYES:
24
                  Is that correct?
                  MR. SOBOL: You may answer, but
```

```
I do object.
                  THE WITNESS: Well, I think
           I've spanned the responsibilities from
           zero to 100 percent, and 50 percent
           isn't qualitatively different.
                   If they spent -- and let's just
           use a number. If they spent
           $10 million, it represents 50 percent
           of their budget on opioid-related
           activities, then that's the right
11
           measure of opportunity cost.
12
     QUESTIONS BY MR. KEYES:
13
                  And so under your approach to
14
     measuring opportunity costs, which you say
15
     are damages, the value of the damages depends
16
     entirely on how much money the county decides
17
     to spend on opioid-related services, using
18
     your logic, right?
19
                  MR. SOBOL: Objection. Form.
20
                  You may answer.
                  THE WITNESS: Well, in my
21
22
           report I'm applying the, you know,
23
           well-accepted concept of opportunity
           cost. And, yes, it kind of makes
24
25
           sense as a -- you know, just from
```

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```
Ο.
                   Because -- I want to make sure.
     You quantify opportunity costs, right?
3
            Δ
            Ο.
                   And you say the opportunity
     costs are the cost consequences to the Summit
     County and Cuyahoga County governments as a
     result of these harms resulting from the
     opioid epidemic, right?
9
                   MR. SOBOL: Objection. Asked
10
            and answered.
11
                   THE WITNESS: I think that's
12
            correct, yes.
13
     QUESTIONS BY MR. KEYES:
14
                   And you call those opportunity
15
     costs damages because you were instructed to
16
     do so by counsel, correct?
17
                  Let me just make sure.
18
                   Upon instruction from counsel,
19
     I refer to cost consequences as damages, yes.
2.0
                   Going back to your
21
     prescription, what was -- how many days was
22
     your prescription for for the prescription
23
     opioid?
24
                  Longer, but I don't remember.
                   What do you mean by "longer"?
```

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```
common sense and certainly is
            well-supported by economics that if a
            household, or a government in this
            case, spends a hundred dollars on
            something, then they would have had
            that hundred dollars to spend on
            something else, and that's the right
            measure of opportunity cost.
                  Unless I'm missing some
            subtlety in your question, then the
11
            answer is, yes, that's the opportunity
12
            cost of the funds.
13
     QUESTIONS BY MR. KEYES:
14
                  And you equate opportunity cost
15
     with damages based on the instruction that
     you received from plaintiffs' counsel,
16
17
     correct?
18
                  Well, the opportunity cost is
           Α.
19
     an economic concept, and so that's -- that
20
     comes from me, you know, what is the
21
     opportunity cost of these funds. We
     discussed that today.
22
23
                  I put damages in quotes because
24
     that's -- on instruction from counsel, I
25
     refer to them as damages.
```

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```
Seven days?
            Α.
                   More than two.
 3
                   30 days? Different?
            Ο
                   I don't know. I don't
            Α.
      remember.
                   When you stopped taking the
            Ο.
      prescription opioid after two days, did you
      have additional pills left over?
 9
            Δ
                    Yes
10
            Ο.
                   What did you do with them?
11
            Α.
                   Threw them out.
12
            Ο.
                   Where?
13
            Α.
                   In the trash.
14
                   Okay. How did you know to do
15
      that?
16
                   MR. SOBOL: Objection. Assumes
17
            a fact not in evidence.
18
                   THE WITNESS: Well, I thought
19
            it was --
2.0
                   MR. KEYES: He just said he
21
            threw them out.
22
                   THE WITNESS: Yeah.
23
                   MR. KEYES: I'm asking, how did
24
            he know to throw them out.
                   MR. SOBOL: But that assumes
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```

```
that he knew to throw them out, rather
           than something else.
     QUESTIONS BY MR. KEYES:
                  Did you throw them out on
     purpose or by accident?
                  They slipped out of my hand and
     went in the trash, and they were gone.
                  No, for real. Did you throw
     them out by accident --
           Α.
                  No, I didn't.
11
                  -- or on purpose?
           Ο.
           Α.
                  I threw them out on purpose.
           Ο.
                  Okay. How did you know to
14
     throw them out on purpose?
15
                  Well, as I mentioned a few
           Α.
16
     minutes ago, they're risky drugs, and I
17
     thought that whatever pain I had was already
     well-managed, that it didn't make sense to
18
19
     pop these pills.
20
                  If you turn to page 44 of your
           Ο.
21
     report.
22
           Δ
                  Yes
                  THE WITNESS: I'd like to get
23
24
           some water. We don't need to take a
           break, but just get some water.
```

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```
Ο.
                  And you set forth those damages
     in Table 4.13?
3
           Δ
                  That's correct
           Ο.
4
                  And then you aggregate those
     numbers in Table 4.14 on page 46, correct?
6
           Δ
                  That's correct.
7
                  Are those the damages
     calculations that you performed?
9
           Δ
                  Yes.
10
                  Did you perform any other
11
     damages calculations that are not set forth
12
     in these tables?
13
                  MR. SOBOL: You mean drafts?
                  MR. KEYES: Of any sort.
14
15
                  MR. SOBOL: Well, then I
16
           instruct him not to answer.
17
     QUESTIONS BY MR. KEYES:
18
                  Well, did you perform any other
19
     damage calculations that are not set forth in
2.0
     these tables where you are offering the
21
     opinion that those are damages calculations?
22
                  This is my opinion. There's no
23
     opinions I have other than what you see here.
24
                  Okay. So the opinions that you
     set forth regarding damages on pages 44, 45
```

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```
MR. KEYES: Well, why don't we
           take a break then.
                  VIDEOGRAPHER: The time is
           11:56 a.m., and we're off the record.
            (Off the record at 11:56 a.m.)
                  VIDEOGRAPHER: The time is
           12:10 p.m., and we're on the record.
     QUESTIONS BY MR. KEYES:
                 Professor McGuire, do you have
10
     Exhibit Number 1 in front of you, which is
11
     your report on damages?
           Α.
                  Yes. I do.
13
           Ο.
                 And are you at page 44?
14
           Α.
                  Yes, I am.
15
                  And in paragraph 76, you
     identify what you claim are damages for
16
17
     Cuyahoga County under Approaches 1 and 2?
18
                  That's correct.
19
           Ο.
                 And you set forth those damages
20
     in Table 4 122
21
           A.
                 That's correct.
22
                 And in paragraph 77, you
23
     identify what you claim are damages for
     Summit County under Approaches 1 and 2?
24
25
          Δ
                 That's correct.
```

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```
and 46 are the only opinions you have on
2
     damages?
3
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
                  The quantification of damages?
                  MR. SOBOL: Objection.
6
                  THE WITNESS: I believe that's
           correct, yes.
9
     QUESTIONS BY MR. KEYES:
                  Okay. Then would you turn to
10
11
     Appendix 4.E of your report. It's towards
12
     the very back.
13
           Α.
                  Okay. Okay.
14
           Q.
                  Are you on Appendix 4.E?
15
           Α.
                  I am, yes.
16
           Q.
                  Okay. 4.E is titled "Damages
17
     Due to Shipments."
18
                  What is Appendix 4.E showing,
19
     if you know?
2.0
                  I do know. I tried to explain
21
     this in the first couple of sentences there.
22
                  They show the -- as the title
23
     of the tables say, the share of harms due to
24
     all shipments.
                  I must be confused then,
```

```
because I asked you earlier whether the
     opinions that you set forth regarding damages
3
     on pages 44, 45 and 46 are the only opinions
     you have quantifying damages, and you said,
     quote, "I believe that's correct, yes."
                   So what is Appendix 4.E
     intended to show --
            Α.
                   Okay.
            Q.
                   -- if not quantification of
     damages?
11
            Α.
                   Okay.
                   MR. SOBOL: Objection to the
            form.
14
                   You can answer.
15
                   THE WITNESS: This appendix was
            prepared in order to -- just one
17
            second.
18
                   All right. These were prepared
19
            as -- in response to what I needed for
20
            the public nuisance report.
21
     QUESTIONS BY MR. KEYES:
22
                  What do you mean?
23
                   I mean in the public nuisance
24
     report, which we haven't talked about yet,
25
     but I think you obviously know what I'm
```

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```

```
discussing.
     QUESTIONS BY MR. KEYES:
3
                  And so which set of
     calculations do you intend to show a jury:
     the ones in pages 44 through 46 of your
6
     report or the calculations in Appendix 4.E?
7
                  MR. SOBOL: Objection. Form.
8
                  THE WITNESS: Well, I think it
9
           depends on -- in response to what
10
           question I'm asked.
11
     QUESTIONS BY MR. KEYES:
12
                  Have you performed any other
13
     what you call "damages calculations" besides
14
     Appendix 4.E and what you list in pages 44
15
     through 46 in your report?
16
                  MR. SOBOL: Excluding drafts?
17
                  MR. KEYES: Excluding drafts.
18
                  THE WITNESS: Excluding drafts,
19
            no, I don't think so.
2.0
     QUESTIONS BY MR. KEYES:
21
            Q.
                  Okay. Would you turn to
22
     Appendix 4.F.
23
                  You told me that the only
24
      damages calculations you performed were
     pages 44 through 46. You said there were no
```

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```

```
referring to, the charge there was slightly
     different. It was in order to assess harms
     and quantify the harms to the counties from
     the opioid crisis, from -- due to the
     shipments, and these tables fed into those
     opinions.
                  And when you say "quantify the
     harms to the counties," you're talking about
     to the communities or individuals in the
     communities, not the governments, correct?
11
                 It's not restricted to the
           Α.
12
     governments.
13
           Ο.
                  Okav. So how are the
14
     calculations in Appendix 4.E different than
15
     the calculations on pages 44, 45 and 46 in
16
     your report?
17
           Α.
                  Okav. These are different in
18
     that they don't take account of the estimates
19
     from the Rosenthal report of the share of
2.0
     shipments due to misconduct.
21
                  MR. SOBOL: Let the record
22
           reflect that the "these" he was
23
           pointing to, Appendix 4.E.
24
                  THE WITNESS: The tables in
25
           Appendix 4.E that we've been
```

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```
others.
                  Then I showed you Appendix 4.E,
3
     and you said, yes, those are calculations
     needed for the nuisance report.
                  I said: Did you perform any
6
     other calculations of what you contend to be
     damages.
                  You said. No
9
                  What is Appendix 4.F then?
                  MR. SOBOL: Objection. I don't
10
11
           think he's asking you, but maybe he
12
           is, to adopt his rendition of the
13
           prior testimony, which I object to,
14
           with the last sentence or -- you can
15
           answer: What is Appendix 4.F?
                  THE WITNESS: Appendix 4.F is a
16
17
           illustration of how the methodology
18
           could be applied to a different
19
           question, which would be the share of
2.0
           misconduct attributable to -- this is
21
           the distributors.
22
     QUESTIONS BY MR. KEYES:
23
                  Based on what conduct of the
24
     distributors?
25
                  That's something that I didn't
```

```
deal with in my report.
                  Okay. How did you go about
     arriving at the figures that are in
     Appendix 4.F?
                  This is, again, in the same way
     as some of the other figures, that these
     percentages were provided to me, and then I
     applied them to the potentially affected
     costs to get an estimate of damages.
                  You say "these percentages."
11
     Are you referring to the percentages in Table
     F 12
13
           Α.
                  F.1 and F.2, ves.
14
                  Okay. What about -- and did
           Ο.
15
     you apply those percentages to dollar figures
     to arrive at the dollars shown in Tables F.3
16
17
     and F.4?
18
           Α.
                  That's correct, yes.
19
                  Okay. So did you simply take
20
     what you identified as the affected costs and
21
     multiply them by the percentages in Table F.1
22
     and F 22
23
                  MR. SOBOL: Objection.
24
                  THE WITNESS: Yeah. Yes.
25
```

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```
Α.
                  No, I depended on him for those
     percentages.
3
                  What is Table 4 -- I'm sorry,
           Ω
     Appendix 4.G?
4
                  Professor Rosenthal conducted
     her empirical work in two ways, and what 4.G
     refers to is the same kind of calculations
     with different Rosenthal estimates.
9
                  And then did Professor Cutler
     take those percentages from Professor
10
11
     Rosenthal and do something?
12
           Α.
                  My understanding of what
13
     Professor Cutler did was multiply some things
14
     together.
15
           Ο.
                 What did he multiply, as you
16
     understand it?
17
                  The Rosenthal percent times his
18
     own percent of harms due to shipments.
19
     Rosenthal was misconduct of the shipments.
2.0
     Cutler was shipments due to harms. And to
21
     attribute the share of harms due to
22
     misconduct, he multiplies those two things
23
     together.
24
           Q.
                  And then he arrives at a
     percentage?
```

```
Highly Confidential - Subject to Further Confidentiality Review
     QUESTIONS BY MR. KEYES:
                  Where did the percentages come
     from that you used in these calculations and
     which are set forth in Table F.1 and F.2?
                  These came from Cutler report,
     Appendix 3.J.
           Ο
                  And how do you know that?
           Α.
                  I looked at it.
           Q.
                  Where do you cite 3.J? In
10
     footnote 1?
11
           Α.
                  In footnote 1, yeah.
12
                  So you received these
           Ο.
13
     percentages from Professor Cutler.
14
                  Did you independently arrive at
15
     those percentages or just take the ones you
16
     had received from Professor Cutler?
17
                  MR. SOBOL: Object to form.
18
                  You may answer.
                  THE WITNESS: This was what you
19
2.0
           would call input from Professor
21
           Cutler.
```

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OUESTIONS BY MR KEYES.

that Professor Cutler provided?

22

23

24

25

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validate that input, namely the percentages

Did you do anything to test or

```
Α.
                  And then he arrives at a
     percentage.
3
                  So he starts with percentages
           Ο.
     derived by Professor Rosenthal, correct?
                  MR. SOBOL: Objection.
6
                  Go ahead.
                  THE WITNESS: Not maybe start
           with, but he has them
     OUESTIONS BY MR. KEYES:
9
10
                  Okay. And what testing of
11
     Professor Rosenthal's percentages did
12
     Professor Cutler do?
13
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, that's
14
15
           really a question for Professor Cutler
16
           rather than Tom.
17
     QUESTIONS BY MR. KEYES:
18
                  Do you know what testing, if
19
     any, he did?
2.0
                  MR. SOBOL: Objection. Scope.
21
                  THE WITNESS: Well, he would
22
           have -- I'm a little reluctant to
23
           speak for him subjectively.
24
     QUESTIONS BY MR. KEYES:
                  I'm not asking you to speak for
```

```
him. I'm asking what you know.
                  What do you know about whether
     Professor Cutler tested the percentages that
     he received from Professor Rosenthal?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: He would have
           reviewed them and determined that they
           were reasonable from his perspective.
     QUESTIONS BY MR. KEYES:
                  You say "would have."
11
                  Did he do that?
           Α.
                  Yes.
                  MR. SOBOL: Objection. Scope.
13
14
     QUESTIONS BY MR. KEYES:
15
                  How do you know that?
                  MR. SOBOL: Objection.
16
17
                  Just the -- not the content
18
           but -- if counsel were present, but
19
           the method.
2.0
                  THE WITNESS: I'm sorry, I
21
           didn't hear the objection.
22
                  MR. SOBOL: So he just asked
23
           you a question. You could either say
           it was by telephone or you could give
24
           the content of the communication
```

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# Highly Confidential - Subject to Further Confidentiality Review

Highly	y Confidential	- Subject to Further Confidentiality Review
1	percentages	Professor Cutler provided to you?
2	A.	Correct.
3	Q.	And those are the percentages
4	that you use	in Table G.1 and Table G.2?
5	Α.	Correct.
6	Q.	To arrive at your figures?
7	A.	Correct.
8	Q.	Did you do any testing of the
9	percentages	that you received from Professor
10	Cutler in or	der to do the calculations that
11	you performe	d in Appendix 4.G?
12	Α.	Only in the sense that I've
13	mentioned so	far.
14	Q.	Nothing else, correct?
15	A.	Well, it's a pretty general yes
16 answer, but		
17	Q.	You prepared a second report on
18	public nuisance, correct?	
19	Α.	That's correct.
20	Q.	And you also issued that report
21	on March 25,	2019?
22	Α.	That's correct.
23		(McGuire Exhibit 6 marked for
24	identi	fication.)
25		

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```
If counsel were there, you're
           not to testify regarding what the
           content of the communication was.
                  THE WITNESS: Okay. Yes, there
           were, you know, more than one meeting
           in which the analyses were reviewed.
     QUESTIONS BY MR. KEYES:
                  Okay. And then Professor
     Cutler separately derived another set of
10
     percentages, right?
11
                  That's correct.
           A.
                  MR. SOBOL: Objection.
13
     QUESTIONS BY MR. KEYES:
14
                  And did you test that separate
           Ο.
15
     second set of percentages?
16
                  In the same sense that I
           Α.
17
     mentioned for Cutler and Rosenthal.
18
                  Okay. And then you understand
19
     that Professor Cutler took the first
20
     percentages that he received from Professor
21
     Rosenthal and multiplied them by a set of
22
     percentages that he had calculated to arrive
23
     at a third set of percentages, correct?
                  Correct.
24
           Α.
                  And that third set of
25
```

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```
OUESTIONS BY MR. KEYES:
            Ο.
                  I'm showing you what has been
     marked as McGuire Exhibit 6.
                   Is this your report?
                   Yes, it is.
            Α.
                   Would you turn to page 81 of
            Ω
     McGuire Exhibit 6?
                   Are you there?
9
            Α.
                   I'm there.
                   There's a signature?
10
            Ο.
11
            Α.
                   I see it.
            Q.
12
                   Is that your signature?
13
                   Yes, it is.
14
                   And by that signature did you
15
     intend to confirm that this is your report?
16
            Α.
17
            Q.
                   And it sets forth your
18
     opinions?
19
            A.
                   That's correct.
2.0
                   And your calculations?
21
                   Yes.
22
                   And your work?
23
            Α.
24
                   And your words?
```

```
Did you write this opinion?
                  Yes. I did.
                  Did anyone else write portions
     of it for you?
           A.
                  Okay. Who else was involved in
     the preparation of this report?
                  There would have been support
     staff from the two firms we spoke about last
     Tuesday: Compass Lexecon and Greylock
11
     McKinnon Associates.
12
                  And who from Compass Lexecon
     assisted you on this report on public
14
     nuisance?
15
                  It would have been Hal Sider,
           Α.
     Alice Kaminski, Evan McKay, and someone I
16
17
     forgot to mention last time that I feel a
18
     little bad about is Heather Spang, who
19
     assisted on both reports. I just...
20
                  How do you spell Ms. Spang's
           Ο.
21
     last name?
22
           Δ
                  S-p-a-n-q.
23
                  And what was her role on the
24
     damages report, if you forget to mention her
25
     last week?
```

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```
felt bad about it. And then I went back and
     checked and I said, "Oh, gosh, I forgot
3
     Heather." So I just forgot.
           Q.
                  What did you go back and check?
4
           Α.
                  E-mails.
                  E-mails with Compass Lexecon?
           Ω
                  Yeah. Yes.
           Α.
                  Okay. Did anyone else help you
           Ω
     on your damages report besides the people
10
     you've now mentioned: Mr. Cider,
11
     Ms. Kaminski, Mr. McKay, Ms. Spang?
12
           Α.
                  Erica Benton.
13
           Ο.
                  And Ms. Benton.
14
                  Anyone else?
15
                  Not that I know of. There may
16
     have been other staff that they used, but I
17
     don't know.
18
           Q.
                  Okay. And you mentioned a
19
     second firm.
2.0
                  Can you spell that for the
21
     court reporter?
22
                  Yeah, it's -- the first name is
23
     Greylock, G-r-e-y-l-o-c-k, and it's one word,
24
     and then McKinnon, M-a-c-K i-n-n-o-n {sic},
     Associates.
```

```
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                  For a while, she was my first
     contact if there was something to be done on
     damages and something she did or she would
     have enlisted other staff.
                  And what was her role with
     respect to the substance of your damages
7
     report?
                  Well, I mean, her role was what
     I just described. If I needed something or
     had a question, I would first go to her and
11
     she would try to help me.
           Ο.
                  Did she interview people at
13
     Summit County?
14
           Α.
                  She may have. I'm not
     100 percent sure.
15
                  Did she interview people at
16
           Ο.
17
     Cuvahoga County?
18
                  I'm not sure about that either.
19
                 How did you remember that
20
     Heather Spang had a role in the damages
21
     report when it didn't occur to you last
22
     Tuesday?
23
                  That's -- I don't know. I
```

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24

25

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just -- I had the feeling when we talked last

Tuesday that I was forgetting somebody, and I

```
Ο.
                  And what was Greylock McKinnon
     Associates' role on the damages report?
                  Also to help support my report
     writing.
                  What did Greylock McKinnon
           Ο.
     Associates do to help support your report
     writing?
           Δ
                  I would identify literature
9
     that I needed to understand or information I
10
     needed, and they would help me with that.
11
                  How many people were on the
12
     Greylock McKinnon Associates team helping you
13
     on the damages report?
14
                  MR. SOBOL: You mean public
15
           nuisance?
16
                  MR. KEYES: No, damages report.
17
                  MR. SOBOL: Okay.
18
                  THE WITNESS: On the damages
19
           report?
2.0
     QUESTIONS BY MR. KEYES:
21
                  Yeah.
22
                  I asked you before, what did
23
     Greylock McKinnon Associates do to help
24
     support your report writing with respect to
     the damages report.
```

```
Oh, okay.
                  MR. SOBOL: We both flipped out
            on that.
                  THE WITNESS: Yeah, sorry.
     QUESTIONS BY MR. KEYES:
            Ο.
                  Did Greylock McKinnon
     Associates help you on the damages report?
                  Much less. There may have been
     some --
            ο.
                  Much less than Compass Lexecon
11
     did --
           Α.
                  Yes.
13
                  -- on the --
           Ο.
14
            Α.
                  The damages report was
15
     primarily Compass Lexecon.
16
           Ο.
                  So I'm asking: What did
17
     Greylock McKinnon Associates do to help you
     on the damages report?
18
19
                  Okay. You know, part of what I
           Α.
20
     needed to do in the damages report is
21
     understand the reports coming before me,
22
     which -- by which I mean the Rosenthal report
23
     and the Cutler report.
24
                  The empirical work in the
25
     Rosenthal report was primarily supported by
```

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```
think his title is analyst, probably; and
     then Amanda Kreider, who also is an analyst
3
     there
           Ο.
                  And how did these three people
     help you specifically on your public nuisance
6
     report?
7
           Α.
                  They helped me track down
     papers and studies.
9
            Ο.
                   Just get copies of them or read
10
     them?
11
           Α.
                   Sometimes they read them.
12
            Q.
                  And did they prepare summaries
13
     of them for you?
14
                   In some cases there were kind
15
     of an indication of what the papers were
16
     about, so then it would help me figure out
17
     where I needed to read more in more detail.
18
                  And are these written
19
     indications of what certain papers were
2.0
      about?
21
                   MR. SOBOL: Just yes or no.
22
                   THE WITNESS: Yes.
23
     QUESTIONS BY MR. KEYES:
```

```
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```

```
staff at Greylock McKinnon, and I had
     occasion to speak with that staff who, you
     know, helped me understand these.
                  Who were the members of the
     Greylock McKinnon Associates team that helped
     you on the damages report?
                  The fellow's name is Forrest,
     and then McCluer, M-c-C-l-e-u-r {sic}.
                  Did anyone besides Mr. McCluer
10
     from Greylock McKinnon Associates help you on
11
     the damages report?
12
           Α.
                  I don't think so.
13
           Ο.
                  What was Grevlock McKinnon
14
     Associates' role on the nuisance report?
15
                  There was more individuals
16
     involved in supporting, but the role was, as
17
     I described earlier, they would help me with
     information and literature.
18
19
                  And who are the -- who are the
20
     specific people at Greylock McKinnon
21
     Associates who helped you on the nuisance
22
     report?
23
                  Okay. There are three: Renee
24
     Rushnawitz, and she's one of the owners of
25
     the firm; and Adrian Gonzalez, who's -- I
```

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```
McKinnon Associates team?
           Α.
                  Mostly, yes.
3
                  Did you rely on them to decide
     what to read yourself?
                  They helped guide me into what
     I should be looking at in more detail.
           Ο.
                  So did you rely on them in
     order to do your work on this engagement?
9
                  MR. SOBOL: Objection.
10
                  THE WITNESS: Well, I used them
11
           in the specific way I just answered.
12
           They helped guide what I should pay
13
           more attention to.
14
     QUESTIONS BY MR. KEYES:
15
                  Now, were there times when you
16
     read their -- what you describe as a written
17
     indication and just use that and not go to
18
     the original source?
19
           Α.
                  Not that I can think of.
2.0
                  Were there times when you got
21
     the written indication of what the paper said
22
     and then you actually went to the original
23
     source and read it?
24
           A.
                  Many times.
                  Every time?
```

Did you read these written

24

```
MR. SOBOL: Objection.
2
                   THE WITNESS: I don't know if I
            would have sometimes decided something
            was in one of their outlines that I --
            for whatever reason I decided, no, I'm
            not going to look at that. I don't
            know. That probably happened.
     QUESTIONS BY MR. KEYES:
                  Prior to this engagement, have
     you ever offered an opinion that a public
11
     nuisance existed?
            Α.
                  Not in any legal sense.
13
           Ο.
                  In anv case?
14
                  In any legal -- in some
            Α.
15
     litigation context?
            Q.
16
                  Yeah.
17
            Α.
                  No, this is my first public
18
     nuisance report.
19
                  And prior to this engagement,
           Ο.
20
     have you ever offered opinions about the
21
     magnitude of harms or costs associated with
22
     the public nuisance?
23
                  This is -- you're also asking
     in a litigation context?
24
25
           Ω
                  Yes
```

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```
Α.
                   T don't know.
                   Prior to this engagement, has
            Ο.
3
     Greylock McKinnon Associates ever worked on a
     case attempting to determine the magnitude of
     harms or costs associated with the public
     nuisance?
7
            Α.
                   I don't know.
            Q.
                  In paragraph 21 of your report
9
     on public nuisance --
                   Are you there?
10
11
            Α.
                   Yes, I'm here.
12
                   -- you discuss physicians being
            Q.
13
     influenced by, quote, "Detailing visits by
     representatives of brand drug companies and
14
15
     other promotional activities by drug
16
     companies."
17
            Α.
                   Excuse me, I think I must be on
18
     the wrong page.
19
                   Can you give me another --
2.0
            Q.
                   Paragraph 21.
21
                   Paragraph 21. Okay.
22
                   Okay.
2.3
            Q.
                   Are you there?
24
                   Okay. In paragraph 21 you
```

```
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                   No, this is my first public
     nuisance venture.
                   Prior to this engagement, have
     you ever served as a testifying expert
     offering opinions regarding a public
     nuisance?
                   MR. SOBOL: Objection. Asked
           and answered.
9
                   THE WITNESS: No, this is my
            first public nuisance venture.
11
     QUESTIONS BY MR. KEYES:
12
                   Prior to this engagement, has
13
     Compass Lexecon ever worked on a case
14
     involving whether a public nuisance existed?
15
                  T don't know.
16
                   Prior to this engagement, has
17
     Compass Lexecon ever worked on a case
18
     attempting to determine the magnitude of
19
     harms or costs associated with the public
2.0
     nuisance?
                   I don't know.
21
           Α.
22
                   Prior to this engagement, has
23
     Grevlock McKinnon Associates ever worked on a
```

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24

25

existed?

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case involving whether a public nuisance

```
discuss physicians being influenced by,
      quote, "Detailing visits by representatives
      of brand drug companies and other promotional
      activities by drug companies."
                   Do you see that?
 6
                   I see it.
            Α.
                   Have you studied detailing
      visits by manufacturing defendants to
      physicians?
 9
10
                   Well. I've studied in a sense
11
      of reading about it as part of my
12
      professional --
13
            Ο.
                   Reading about them?
                   Yes, that's what I said.
14
15
            Ο.
                   Okay. Have you done any
16
      independent study yourself?
17
                   MR. SOBOL: Objection.
      QUESTIONS BY MR. KEYES:
18
19
                   Of detailing visits?
2.0
                   MR. SOBOL: Objection.
21
                   THE WITNESS: Okay. Well, I --
22
            in sort of a general term, that's an
23
            independent study. It's me. It's
24
            reading. That's a kind of study.
                   What I haven't done is
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```

independently assessed the empirical 2 connection between detailing visits and sales or shipments. QUESTIONS BY MR. KEYES: You say in paragraph 21, quote, "In the context of prescription opioids, manufacturers were purveying biased information." Α. I'm sorry, you've lost me again. 11 You say in paragraph 21, "In Ο. the context of prescription opioids" --13 MR. SOBOL: It's third line 14 down. 15 THE WITNESS: Okay. Okay. QUESTIONS BY MR. KEYES: 16 17 Ο. Okay. Have you studied what 18 false information was disseminated by manufacturers to physicians? 19 20 Well, I'm relying on other 21 experts for making that determination. 22 Ο Who? 23 Well, as it says in the very 24 next sentence there, "As explained in the 25 expert report of Matthew Perri."

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```
Yes. You used the phrase
     "systematically and intentionally
3
     misleading "
           Α.
                  And where might I find that
4
     phrase?
6
                   Do you recall using that phrase
            Ο.
     in your own report?
                   It rings a bell, but I want
           Δ
9
     to -- I'd like to see where you're talking
10
     about.
11
            Ο.
                   Do you see the sentence that \ensuremath{\text{I}}
12
     read you a moment ago about purveying biased
13
     information?
           Α.
14
15
                   The very next sentence refers
16
     to "The information doctors were being given
17
     about the dangers of prescription opioids was
18
     in most cases false and systematically and
19
     intentionally misleading."
2.0
                   Do you see that?
21
                 I do, yes.
22
                   Okay. So have you studied
23
     what, quote, "systematically and
24
     intentionally misleading, " quote, information
     was disseminated by manufacturers to
```

```
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                   Anyone else?
                   It's also covered in some
      Kessler stuff and Dr. Parran stuff.
                   Have you studied what false
     information was disseminated by manufacturers
      to patients?
7
                   MR. SOBOL: Objection. Form.
                   You may answer.
                   THE WITNESS: Well, again, I
           rely on the reports of these other
11
           experts for that.
12
     QUESTIONS BY MR. KEYES:
13
                   You're relying on the same
           Ο.
14
     experts you just mentioned?
15
           Α.
                   Yes.
16
                   Have you studied what false
     information was disseminated by manufacturers
17
18
     to consumers?
19
           Α.
                   I'd be relying on the same
20
     experts for that.
21
           Ο.
                   Have you studied what, quote,
```

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22

23

24

25

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disseminated by manufacturers to physicians?

Is that a quote from me?

"systematically and intentionally misleading," quote, information was

```
physicians?
                  Well, on -- in this -- on
     this -- for this statement I also rely on
     Dr. Perri, as the footnote indicates.
                  Have you studied what, quote,
     "systematically and intentionally
     misleading, " end quote, information was
     disseminated by manufacturers to patients?
9
                  The same. I have -- I rely on
10
     these three other experts for this material.
11
                  Have you studied what, quote,
12
     "systematically and intentionally
13
     misleading," end quote, information was
     disseminated by manufacturers to consumers?
14
15
                  In the same way, this is
16
     something I rely on the three experts in my
17
     report.
18
           Q.
                  Will you turn to page 6 of your
19
     report?
2.0
                  Are you there?
21
                  I'm there, yeah.
22
                   In paragraph 10 you say, "I
23
     will use the term 'defendants' shipments of
24
     prescription opioids, ' or sometimes just
     'shipments,' as a shorthand for the activity
```

```
the bellwether plaintiffs claim constitutes a
     public nuisance regarding both the marketing
3
     and distribution of prescription opioids by
     defendants."
                   Do you see that?
            Α.
                  I do see that, yes.
            Ω
                  And when you refer to "the
     bellwether plaintiffs" here, you're referring
     to Summit County and Cuyahoga County,
     correct?
11
            Α.
                   That's correct.
            Ο.
                  And only those two counties.
13
     correct?
14
            Α.
                   That's correct.
15
                   And when you refer to the
            Ο.
16
     bellwether plaintiffs elsewhere in this
17
     report, again, you're referring to Summit
18
     County and Cuyahoga County, correct?
19
           Α.
                  That's correct.
2.0
                  And only those two counties?
            Ω
21
            Α.
                  That's correct.
22
                  And so is it accurate based on
23
     this statement to say that every time you
24
     refer to, quote, "shipments," you are
25
     referring to all of the marketing of
```

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```
Ο.
                  Okay. In paragraph 16 you say,
     "A public nuisance in economic terms is
3
     generally observed when an action or set of
     actions undertaken by a party or group of
     parties gives rise to overwhelming negative
     externalities."
6
                  Do you see that?
7
                 I do, ves.
           Δ
9
                  And you use this definition
10
     when you opine that a, quote, "public
11
     nuisance has resulted from the shipment of
     prescription opioids into the bellwether
12
13
     communities."
14
           Α.
                  And where am I reading when I
15
     see that?
16
           Q.
                  Well, that's on page 7,
17
     paragraph 14.
18
           Α.
                  Okay. So far so good.
19
                  Okay. So do you see that your
2.0
     reference to "I am of the opinion, to a
21
     reasonable degree of certainty in the area of
22
     applied microeconomics, that a public
23
     nuisance has resulted from the shipment of
24
     prescription opioid products into the
     bellwether communities"?
```

```
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     prescription opioids by all of the defendants
      and all of the distribution of prescription
     opioids by all the defendants?
                  Can you ask me again? I'm
     sorry.
                   Yeah.
                  T have --
                  I just showed you the language
     in paragraph 10.
           Α.
11
                  I want to confirm: Is it
     accurate based on paragraph 10 to say that
13
     every time you refer to, quote, "shipments,"
14
     end quote, you're referring to all of the
15
     marketing of prescription opioids by all of
     the defendants and all of the distribution of
16
17
     prescription opioids by all of the
18
     defendants?
                   Well, if by "marketing" you
19
           Α.
20
     mean "sales," then I think that's correct.
21
           Ο.
                  Would you turn to page 9 of
22
     your report?
23
           Α.
                  Okay.
```

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Ο.

24

25

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Are you there?

I'm there

```
Do you see that language?
                  I see that, ves.
           Α.
                  And when you offer that
     opinion, referring to a public nuisance, you
     are using the definition that you provided in
     paragraph 16 on page 9, correct?
7
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, I wouldn't
9
           call this a definition.
     QUESTIONS BY MR. KEYES:
10
11
           Ο.
                  What would you call it?
12
                  It's a statement.
           Α.
13
           Ο.
                  Okay.
14
                  I'm not sure -- it doesn't say
15
     definition. It doesn't mean to be an
16
     if-and-only-if statement.
17
                  Well, when you are talking in
18
     this report about a public nuisance in
19
     economic terms, are you using some different
2.0
     standard for public nuisance than what you
21
     describe here?
22
           A.
                   Well, this --
23
                  Paragraph 16?
24
                  The definition of public
     nuisance that I'm using is set out here.
```

```
It's probably -- a little bit earlier. It
     was given to me by counsel. That's contained
     in paragraph 7, which I then interpreted for
     my purposes as containing three components.
     And if you ask me for a definition, that's
     what I would give you.
7
                  Okay. So you're using the
     legal definition that you say was provided to
     you by plaintiffs' counsel as set forth in
     paragraph 7?
11
                  MR. SOBOL: Objection.
12
           Mischaracterizes his testimony.
                  THE WITNESS: Well, this is --
14
           I was instructed to be guided by this
15
           definition, which I was. And then in
           order to evaluate whether a public
17
           nuisance existed. I used that
18
           definition to identify three things
19
           that I should study, and the three
20
           things are on page 21.
21
     QUESTIONS BY MR. KEYES:
22
                  Right.
23
                  So, Professor McGuire, when you
     are offering the opinion that there is a
24
25
     public nuisance, are you using the definition
```

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```
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```

```
define what I'm -- definition --
           definition of a public nuisance.
           There it is. And this is what I do in
           my report.
4
     OUESTIONS BY MR. KEYES:
                  Okay. And going back to
6
     paragraph 16 of your report --
           Δ
                  Okav.
9
                   -- where you describe what a
10
     public nuisance is in economic terms, do you
11
      see that language?
12
           Α.
                  I do.
13
                   Okay. And you describe it as
14
     something that gives rise to overwhelming
15
     negative externalities?
16
                   MR. SOBOL: Objection. That's
17
            not the whole sentence.
18
                   THE WITNESS: Well, the
19
            sentence is what I say, but I'm sure
2.0
            you have a question in mind.
21
     QUESTIONS BY MR. KEYES:
22
                   You say, "A public nuisance
23
     gives rise to overwhelming negative
24
      externalities."
                   MR. SOBOL: Objection. That's
```

```
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```

```
provided by counsel in paragraph 7, or are
     you using what you say is a public nuisance
     in economic terms as described in
     paragraph 16?
                  MR. SOBOL: Objection. Form.
                   THE WITNESS: See, I wouldn't
           put it that way. I was guided by the
           legal instruction. Paragraph 38 uses
           the word "definition." So this is
           what I would point you to in terms of
11
           where it's defined. I consider the
12
           elements of a definition, so this is
13
           where the definition takes place.
14
     QUESTIONS BY MR. KEYES:
15
                  So when you offer the opinion
16
     that there was a public nuisance, are you
17
     using the definition in paragraph 38, or are
18
     you using what you describe as a public
19
     nuisance in economic terms as set forth in
20
     paragraph 16?
21
                  MR. SOBOL: Objection.
22
           Mischaracterizes
                  THE WITNESS: This is the --
23
           paragraph 38 uses the word
24
25
           "definition." So this is where I
```

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```
not what the sentence says.
                  MR. KEYES: I already read what
3
           the sentence says.
     QUESTIONS BY MR. KEYES:
                  Do you disagree with the
6
     concept that a public nuisance gives rise to
     overwhelming negative externalities?
                  The entire sentence says, "A
9
     public nuisance in economic terms is
10
     generally observed when an action undertaken
11
     by a party or a group of parties gives rise
12
     to an overwhelming negative externality."
13
                  So in economic terms, does a
14
     public nuisance gives rise to overwhelming
15
     negative externalities?
16
                  MR. SOBOL: Objection.
17
           Mischaracterizes his testimony.
18
                  MR. KEYES: I'm not
19
           characterizing anything. I'm asking
2.0
           him a question.
21
                  MR. SOBOL: Well, leave your
22
           words out of it.
23
                  MR. KEYES: You're the
24
            economist.
                  MR. SOBOL: Leave your words
```

```
out of it.
                  MR. KEYES: You're the
           economist.
     OUESTIONS BY MR. KEYES:
                  So in economic terms, does a
     public nuisance give rise to overwhelming
     negative externalities?
                  MR. SOBOL: Objection.
           Mischaracterizes his testimony.
                  THE WITNESS: Generally
           observed, when an action -- well, I
           don't know if there's any point in
           reading the sentence, which we've done
14
           already, but you're changing the
15
           meaning.
     QUESTIONS BY MR. KEYES:
16
17
                  Does an action -- in economic
18
     terms, does an action have an externality
19
     even if it harms or imposes costs on just one
20
     other person?
21
                  MR. SOBOL: Objection.
22
                  THE WITNESS: Let me see if I
23
           follow
24
                  Now we're -- you're not using
           the word "public nuisance" in that
```

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```
put it.
     OUESTIONS BY MR. KEYES:
3
                  Well, when you describe a
     public nuisance in paragraph 16, in economic
     terms, you say, "When an action or set of
     actions undertaken by a party or group of
     parties gives rise to overwhelming negative
     externalities, " correct?
9
                   MR. SOBOL: Objection. That
10
            mischaracterizes the testimony, and
11
            it's been asked and answered about
12
            four times
13
                   I don't know what you don't
14
            like about the word "generally."
15
                   THE WITNESS: Well, that's the
16
            sentence I say, but -- so I'm not sure
17
            what the question is then.
     QUESTIONS BY MR. KEYES:
18
19
                  And when you give that sentence
2.0
     where you're describing a public nuisance in
21
     economic terms, it says nothing about
22
      interfering with a public right, correct?
23
                  Well, I don't know. It says
24
     what it says here.
                   What do you mean you don't
```

```
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            question. You're asking a question
            about whether an externality in
            economic terms can fall on just one
           other person?
     QUESTIONS BY MR. KEYES:
                   The answer to that is yes.
                   Okay. In economic terms, does
     an action have an externality even if it does
     not interfere with individuals in their
11
      exercise of public rights?
                   MR. SOBOL: Objection. Form.
13
                   THE WITNESS: Trying to make
14
            sure I...
15
                   Does an action have an
16
            externality even if it does not
17
            interfere with exercise of public
18
            rights?
19
                   So the answer to that question
2.0
            is that, yes, an externality can
21
            involve some other form of negative
22
            effect on a second party that could
23
            take different forms.
```

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24

25

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So I'm not sure whether it's

yes or no, but that's the way I would

```
know?
                  Look at the -- look at
3
     paragraph 16 and tell me whether it says
     anything about interfering with public
     rights.
                  MR. SOBOL: Objection.
6
                  THE WITNESS: Well, you
           wouldn't need to ask that question if
9
           you looked at paragraph 16.
10
                  No, it doesn't.
11
     QUESTIONS BY MR. KEYES:
                  Okay. It refers to giving rise
12
13
     to overwhelming negative externalities.
14
                  What are the criteria in the
15
     field of economics for determining whether
16
     negative externalities are, quote,
17
     "overwhelming," end quote?
18
                  Well, there's no, I would say,
19
     hard-and-fast definition of what overwhelming
2.0
     means. I guess, you know, it means very
21
22
                  And where I do get around to
23
     defining what a public nuisance is, in
24
     paragraph 38 I use words that are, you know,
     similar: "continuing, long-lasting effects"
```

```
and "significantly interfere."
                  That's what I was asked to
     assess, and when the numbers run into the
     billions for two counties, it satisfies my
     definition of what overwhelming is.
                  I didn't ask about
     paragraph 38. I asked about the language you
     used in paragraph 16.
                  In paragraph 16 in your report
     that you say you wrote, you say, "A public
11
     nuisance gives rise to overwhelming negative
12
     externalities."
13
                  My question is: What are the
14
     criteria in the field of economics for
15
     determining whether negative externalities
     are, quote, "overwhelming"?
16
17
                  MR. SOBOL: Okay. First, I
18
           object --
     OUESTIONS BY MR. KEYES:
19
20
                  And you said, "very large."
21
                  Can you be more specific about
22
     the criteria in the field of economics for
23
     determining what, quote, "overwhelming"
24
     means?
25
                  MR. SOBOL: Well, first, I
```

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```
had here in order to evaluate that.
                  And when you say Table 1, I
3
            thought, okay, yes, $20 billion in two
            counties due to shipments, that meets
           mv criteria.
     QUESTIONS BY MR. KEYES:
7
                  Can you point me to any sources
     that you would rely on for identifying the
     criteria for determining whether a negative
10
     externality is overwhelming?
11
                  I don't have anything more than
12
     I told you in answer to the last question.
13
            Ο.
                   Okay. Would you turn to
14
     page 37?
15
            Δ
                   Okay.
16
            Ο.
                   You have a section titled "The
17
     Interference from Shipments was
18
     Unreasonable "
19
                   Do you see that?
2.0
           Α.
                  I do, yeah.
21
                   Now, in offering your opinion
22
     that the interference with shipments was
23
     unreasonable, you offer the opinion that the
24
     number of shipments was unreasonable,
```

```
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            object to the speech beforehand. I
            don't know whether or not you're
            asking the witness to adopt the speech
            or not.
                   But I take it that what you are
            asking is the end question alone,
            which is, can you be more specific
            about the criteria in the field of
            economics for determining what
            overwhelming means.
11
                   THE WITNESS: Well, I think I
12
            interpret this question as another
            version of the guestion I had earlier.
14
            and as I said there, the term
15
            "overwhelming" is one that doesn't
16
            have a bright-line criteria of what is
17
            overwhelming and not overwhelming. It
18
            depends on the context.
19
                   What is significant, that's
2.0
            where large is.
21
                   Continuing, that has to deal
22
            with time
23
                   Long-lasting, that has to deal
24
            with how long negative effects
25
            persist. And that was the charge I
```

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Yeah, or -- well. I have a

```
criteria for what unreasonable means, which
     is that -- what do I say here?
           Q.
                  Well, are you able to tell me
     without looking at your report?
                  It helps me to be more specific
     to look at the report, and it's right here,
     so it won't take much time
9
                  So it's not, I wouldn't say,
10
     number. It's the shipments were unreasonable
11
     if they're not justified by clinical need.
12
     And it wasn't really a count that I looked
13
     at. I looked at more of a share.
                  Okay. I want to be clear that
14
           Q.
15
     I understand the logic.
16
                  You say the interference from
17
     shipments was unreasonable, right?
18
           Α.
                  Yes.
19
                  And you're talking about the
20
     interference with a public right, correct?
21
                  Well, I'm talking about exactly
22
     what I said earlier, with interference with
23
     applicable health and safety.
24
                  And you're saying that that
     interference with those things was
```

```
unreasonable because the volume of shipments
     was unreasonable --
3
                  MR. SOBOL: Objection.
     OUESTIONS BY MR. KEYES:
                  -- right?
                  MR. SOBOL: Objection.
                  THE WITNESS: That's close.
            It's not exactly what I was doing.
                  But I have a definition of
            unreasonable laid out in paragraph 62
           on instruction from counsel --
12
     QUESTIONS BY MR. KEYES:
13
           Q.
                  Right, but that --
14
                  -- and -- excuse me one sec.
15
                  I attempted to evaluate whether
16
     that was satisfied by the large majority of
17
     shipments.
18
            Ο.
                  To determine whether the
     shipments were reasonable or not, using the
19
20
     definition that you just described, which is
21
     not justified by a clinical need?
22
                  I think that's correct
23
                  Okay. And you were instructed
24
     by counsel to assume that unreasonable is, in
25
     substance, not justified by clinical need,
```

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```
Ο.
                  Who studied which shipments
     were used for clinically justified treatment?
3
                  What I rely on and what I
     understand about this, in the sense in
     which -- there's a which here -- is there's a
     count of opioid shipments that -- this comes
     from the Rosenthal report -- in kind of
     theoretical maximum could have been used for
     appropriate medical treatment. That's -- the
     result of that is a kind of share. It's
10
11
     not as I -- I think I misunderstood the
12
     first -- when -- the time you asked the
13
     question.
14
                  It's not saying this shipment
15
     yes; this shipment no. It was looking at of
16
     all the shipments, how many of them could
17
     have been justified by clinical criteria.
18
                  Well, did Professor Rosenthal
19
     look at particular shipments to determine
2.0
     whether they were justified -- clinically
21
     justified treatment?
22
                  This is where I make sure I'm
23
     not confused again here.
24
                  By particular shipments,
     what -- my understanding is that what she did
```

```
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      correct?
                   MR. SOBOL: Objection.
                  THE WITNESS: Basically
           correct, yes.
     QUESTIONS BY MR. KEYES:
                  Okay. And then you opine that
      shipments were unreasonable in this case
     because most shipments were not used for
     clinically justified treatment, correct?
                  The large majority of shipments
11
     were not used for scientifically, yes,
12
     acceptable, yes, treatment.
13
           Ο.
                  Did vou do anv independent
14
     examination of which shipments were used for
15
     clinically justified treatment and which were
16
     not?
17
                  By which you mean in a
18
     particular year in a particular county of all
     the shipments, to sort them into two buckets?
19
2.0
            Ω
                   Yes
21
           Α.
                  No, I didn't do that.
22
                  Who did that?
23
                  You mean classify or do you
```

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ahead. Ask a guestion.

24

25

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mean -- I'm lost about -- excuse me. Go

```
not do was examine, you know, particular --
                  MR. SOBOL: John Doe.
3
                  THE WITNESS: -- shipments to a
           particular patient or through a
           particular distributor or through a
           particular drugstore, but it was to
           identify in a time period and a
           location what share of the total
           shipments could have been attributed
10
           to appropriate clinical treatment.
11
     OUESTIONS BY MR. KEYES:
12
                  What test did she use for that?
13
                  She relied on -- primarily on
14
     expertise of some of the medical experts.
15
           ο.
                  Who?
16
           Α.
                  Primarily on Schumacher and
17
     Dr. Parran.
18
                  Did you examine which shipments
19
     for a particular time period in a particular
2.0
     location could be attributed to appropriate
21
     clinical treatment?
22
                  Well, again, the which in the
23
     sense of which patient, which outlet, I
24
     didn't examine that, but I, you know, applied
     the estimates from Rosenthal's report about
```

```
the share of the total that could be put in
     the clinically acceptable/not clinically
     acceptable categories.
3
                  Okay. So are you relying on
     Professor Rosenthal then to determine which
     shipments are for clinically acceptable
     treatment and which ones are not?
                  Well, two nos there. Two nos
     to this question.
                  It's which share, if you
11
     would -- if you were to substitute which
12
     share of shipments, then I would -- that
     would be the kind of thing I investigated.
14
     And it's not only on Professor Rosenthal.
15
     There's other material that supports that.
16
                  Okay. Well, I just want to
17
     make sure I understand.
18
                  You say that counsel instructed
     you to use not justified by clinical need as
19
20
     the standard for unreasonable, correct?
21
           Α.
                  Correct.
22
                  And you did not independently
           Ω
23
     examine the extent to which shipments were or
     were not justified by clinical need, correct?
24
25
           Δ
                 Well, I took the same
```

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```
bellwether counties.
           Ο.
                  And what is -- what standard
3
     did Professor Rosenthal use to determine
     which shares of shipments were clinically
     justified treatment?
           Α.
                  She relied on medical experts
     for that.
           Ο
                  Which experts?
           Δ
                  Schumacher and Parran, I
10
     believe.
11
           Ο.
                  Okay. And does Professor
12
     Rosenthal take a position in running those
13
     calculations on whether prescription opioids
     are a clinically appropriate use for chronic
14
15
     pain?
16
                  I would have to go back and see
17
     exactly what she said about that. She has a
     qualifier in there, but she did not include
18
19
     any estimates of chronic pain in her
2.0
     clinically appropriate categories.
21
                  If people do obtain pain relief
22
     from chronic pain when they use prescription
23
     opioids, would that change your opinion --
24
                  MR. SOBOL: Objection.
```

```
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     percentages and the same other inputs that go
      into that calculation. I used Professor
      Rosenthal's numbers for those.
                  Right.
                  So you're relying on Professor
     Rosenthal's numbers --
7
                  One sec, though.
                  What I did, read the backup
     that she used, and I did, you know, study the
10
     other parts of the Cutler and Gruber report
11
     that also support that analysis.
12
                  Did you independently test
13
     Professor Rosenthal's work or conclusions
14
     about the share of shipments that were not
15
     justified by clinical need?
16
           Α.
                  Well, in the sense of checking
17
     it against the other evidence in the case.
18
     such as the clinical opinions and the work by
19
     Gruber and Cutler.
2.0
                  Have you done your own study of
21
     the share of prescriptions that are
22
     clinically appropriate?
23
                  Well, what I did is in the
     report, and I used Professor Rosenthal's
24
```

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25

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estimates in order to apply them to the

```
OUESTIONS BY MR. KEYES:
                  -- as to which share of
3
     shipments were for clinically justified
     treatment?
                  MR. SOBOL: Objection.
6
                  You may answer.
                  THE WITNESS: No.
     QUESTIONS BY MR. KEYES:
9
           Ο.
                  Why not?
                  Well, my opinion about this
10
11
     has, I think, a pretty good basis, and it
12
     doesn't depend on a -- you know, a single
13
     aspect of the situation.
14
                   I would say in summary that the
15
     weight of clinical evidence is that, in fact,
16
     there's no studies that I'm aware of that
17
     demonstrate that opioids are effective for
18
     long-term clinical pain.
19
                  What is the FDA --
2.0
                  MR. SOBOL: He hasn't finished
21
           his answer.
22
                   THE WITNESS: So that's -- so
23
            that's one.
24
                   You see that in the CDC, and
           you see that in the medical experts as
```

```
well. That's number one.
                   Number two is the CDC and the
            medical experts and other papers say
            these are dangerous drugs. That's
            number two.
                   And number three, in almost all
            cases, opioids are a third-line
            treatment for long-term chronic pain.
                   Just one -- I'm wrapping up
            here.
                   So you put those statements
            together, and they provide a strong
            basis for saving that the share of
14
            appropriate treatments in the chronic
15
            pain category is going to be really
            small.
16
17
     QUESTIONS BY MR. KEYES:
18
                   What does the FDA say about
19
     whether prescription opioids can be used for
20
     chronic pain?
21
                   MR. SOBOL: Objection.
22
                   THE WITNESS: I'm not sure.
23
     OUESTIONS BY MR. KEYES:
24
            Ο.
                  Did you look into that?
25
                  Well, for that sort of thing is
            Α.
```

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```
diagnosis on a claim form.
     QUESTIONS BY MR. KEYES:
3
                  Well, you can say that. That's
4
     not my question.
                   My question was: Does Medicare
     cover prescription opioids that are
6
7
      specifically prescribed for chronic pain?
                   MR. SOBOL: Objection. Asked
9
            and answered.
                  THE WITNESS: Let me try to
10
11
            answer it another way.
12
                   If a physician were to
13
            prescribe a prescription opioid for a
14
            stomach upset or for a sore foot, that
15
            physician could write that
16
            prescription and it would be filled at
17
            the pharmacy. Medicare does not know
1.8
            what the particular indication is that
19
            the doctor is prescribing that opioid
2.0
            for.
21
     OUESTIONS BY MR. KEYES:
22
                   Has Medicare made a
23
      determination as to whether it will cover
24
     prescriptions for opioids that are expressly
     for the purpose of treating chronic pain?
```

```
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     what I rely on medical experts for, to read
```

```
labels and tell me what is the appropriate
     and not appropriate categories.
           ο.
                  Does Medicare cover
     prescription opioids?
                   MR. SOBOL: Objection.
                   THE WITNESS: Yes, I think they
           do.
     OUESTIONS BY MR. KEYES:
10
                  Does Medicare cover
11
     prescription opioids for chronic pain?
12
                  MR. SOBOL: Objection.
13
                  THE WITNESS: Well, normally
14
            when you write a prescription as a
15
            doctor, you don't even put the
16
            diagnosis down. So the prescription
17
            would go through the system, as it
18
            were, without a diagnosis.
     OUESTIONS BY MR. KEYES:
19
20
                  Does Medicare cover
21
     prescription opioids that are specifically
22
     prescribed for chronic pain?
```

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23

24

25

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wouldn't know. They don't get a

MR. SOBOL: Objection.

THE WITNESS: Well, Medicare

```
MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: I'm not sure
     QUESTIONS BY MR. KEYES:
                  Did you look into that?
                  That's also something that I --
     that's obviously a clinical question of what
     is the appropriate use of opioids, and that's
     something that there are other experts who
9
10
     will be in a good position to talk about.
11
                  Has Medicaid made a
12
     determination as to whether it will cover
13
     prescriptions for opioids that are expressly
14
     for the purpose of treating chronic pain?
15
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, Medicaid is
16
17
           in the same position as Medicare when
18
           it comes to what information it knows
19
           as a claim comes in for a
2.0
           prescription.
21
                  So if a physician in Medicaid
22
           were to prescribe opioids totally
23
           inappropriately, Medicaid wouldn't
24
           know that.
25
                  So they're not in a position to
```

```
make a determination claim by claim
            what is being -- the use of the opioid
            is for.
     OUESTIONS BY MR. KEYES:
                  My question was: Has Medicaid
     made a decision to cover opioids that are
     written expressly for the purpose of treating
     chronic pain?
                   MR. SOBOL: Objection. Asked
            and answered.
11
                   THE WITNESS: I was answering
12
            that question in the context of a
            particular prescription and pointing
14
            out that Medicaid, which -- are we
15
            talking about in the abstract, is not
16
            in a position to make that
17
            determination claim by claim.
18
                   Medicaid is not just one thing
            in the United States. There are 50
19
2.0
            flavors, depending on the state, and
21
            even in the state there are different
22
            plans that participate in Medicaid,
23
            that have formularies that they
            determine on their own.
24
25
                  So it's --
```

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```
opioids that are written expressly for the
2
     purpose of treating chronic pain?
3
                   MR. SOBOL: Objection. Asked
4
            and answered.
                   THE WITNESS: Well, it's not
            possible on a claim-by-claim basis.
           And then, you know, we have many
            private insurers in the United States.
9
            so I'm really not in a position to
10
            answer.
11
     QUESTIONS BY MR. KEYES:
12
                  Have you looked at the
13
     formulary for any private insurer as to
14
     whether it covers prescription opioids for
15
     chronic pain?
16
           Α.
                  Now, this is the realm of the
17
     P & T committee at the health plan, which is
18
     a clinically driven decision. And for me as
19
     an economist, I'm very happy to rely on the
2.0
     expert, the medical experts, to tell me about
21
     this.
22
                   In your report regarding the
23
     public nuisance, you are attempting to
24
     quantify costs incurred by communities and
     individuals as a result of the opioid
```

```
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1 QUESTIONS BY MR. KEYES:
2 Q. Have you looked at the
```

4 plan?
5 A. As part of this, no. That's
6 also the -- within the clinical realm of
7 determining what is the appropriate use of
8 opioids.
9 Q. Have any private insurers made

formularies for any Medicaid or Medicare

9 Q. Have any private insurers made 10 a decision to cover opioids that are written 11 expressly for the purpose of treating chronic 12 pain?

13 MR. SOBOL: Objection. 14 THE WITNESS: You know, it's 15 not so different for the private 16 insurers either. A claim comes in: 17 they don't have a diagnosis on the 18 claim. So it's -- they're not in a 19 position on a claim-by-claim basis to 2.0 make a determination of whether the 21 use of the opioid is appropriate or 22 inappropriate.

23 QUESTIONS BY MR. KEYES:
24 Q. My question was: Have any
25 private insurers made a decision to cover

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```
problem, correct?
                  That's generally correct, yes.
           Α.
3
                  Okav. Do you understand that
     individuals in these communities are not
     parties to this lawsuit?
                  Well, my understanding is the
           Α.
     plaintiffs are the county governments.
                  Okay. So do you understand
9
     that individuals in Summit County and
10
     Cuyahoga County are not parties to this
11
     lawsuit?
12
           Α.
                  Well, I understand the
13
     plaintiffs to be the two county governments.
14
                  And not individuals?
15
                  MR. SOBOL: Objection. Asked
16
           and answered.
17
                  THE WITNESS: And, yes, in that
18
           those are the plaintiffs, period.
19
     QUESTIONS BY MR. KEYES:
2.0
                  Okay. And do you understand
21
     that the communities in the Summit County and
22
     Cuyahoga County are not parties to this
23
     lawsuit?
24
                  MR. SOBOL: Objection. Form.
```

THE WITNESS: In the same way,

```
the same answer. I understand the
           plaintiffs to be the two county
           governments, period.
     OUESTIONS BY MR. KEYES:
                  So when you attempted to
     quantify the costs in the areas of mortality,
     morbidity, NAS, crime and child maltreatment,
     you are quantifying the costs borne by
     individuals and communities in those areas,
     correct?
11
           Α.
                  They would be borne by a range
     of actors. That would include the
13
     governments, but also would include
14
     individuals and other members of the
15
     community.
16
           Ο.
                  You've done specific
17
     calculations of the costs borne by Summit
18
     County and Cuyahoga County, correct?
19
                  I've done in my first report,
20
     or my damages report, I did do specific
21
     calculations of that, yes, that's correct.
22
           Ο
                  Right.
23
                  But I'm not asking about the
     damages report now. I'm asking about the
24
25
     work you did in the public nuisance report.
```

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```
county governments are in the sixth category
     that I apply, which is an importation from my
3
     earlier report of the damages associated with
     shipments as opposed to the shipments'
     misconduct attribution.
                   That doesn't mean that some of
     the costs in the other categories would not
     have been borne by the county government.
9
                   Professor McGuire, at this
10
     point we may be seeking a third day from the
11
      special master because you're not answering
12
     the questions that are posed, and you keep
13
     giving the same kinds of speeches.
14
                   So we've already covered what
15
     you quantified as the costs borne by the
16
     Cuyahoga County and Summit County
17
     governments. That's in your damages report,
18
     correct?
19
                   MR. SOBOL: Objection.
2.0
                   The speech should be completely
21
            ignored, including the implicit
22
            threat, if it's an effort to try and
2.3
            manipulate the truthfulness of your
24
            testimony and should be disregarded.
                   You can answer, however --
```

```
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                   Okay. I understand.
                   Okay. And there, where you are
     quantifying costs in the five areas I listed,
     you were quantifying the costs that are borne
     by individuals or communities other than
      Summit County and Cuyahoga County
     governments?
                  Well, you know, I wouldn't
     necessarily say that.
                  Because?
11
                  MR. SOBOL: Objection.
                   THE WITNESS: Because I don't
13
            think it's true.
14
     QUESTIONS BY MR. KEYES:
15
                  Where have you in your report,
16
     your public nuisance report, have you
17
     quantified the costs borne by the Summit
18
     County or Cuyahoga County governments as a
19
     result of the public nuisance that you say
20
     exists?
21
           A.
                  Where in my report have I
22
     quantified those things?
23
           Ο.
                  Yes
```

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24

25

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costs that I quantify that are borne by the

The most obvious component of

```
THE WITNESS: I'll focus on the
           question.
3
                  MR. SOBOL: -- the question.
     QUESTIONS BY MR. KEYES:
5
                  You already quantified what you
     said are the costs borne by Summit County and
     Cuyahoga County, and you set forth those
     calculations in your damages report, correct?
9
                  MR. SOBOL: Objection. Asked
10
           and answered.
11
                  THE WITNESS: Well, the costs
12
           here are ones due to shipments, not
13
           due to misconduct.
14
                  So report 1, Exhibit 1,
15
           damages, assessed costs due to
16
           misconduct.
17
                  This is a different
18
           calculation. And all I was answering
19
           in response to your question was
2.0
           clarifying that as a starting point
21
           for how I -- for the -- you know,
22
           where these costs would land.
23
                  And that was not a definitional
24
           statement, it wasn't a repetition what
           I did in the first report. It's an
```

```
explanation of the differences between
            what was done in the first report and
            this report.
     QUESTIONS BY MR. KEYES:
                  And those costs that you say
     were borne by the Summit County and Cuyahoga
     County governments you say were imported into
     your public nuisance report?
9
                   MR. SOBOL: Objection. Asked
            and answered.
11
     QUESTIONS BY MR. KEYES:
            Ο.
                   Correct?
13
            Α.
                   Well, go on. I mean...
14
                   Well, go to page 80 of your
            Ο.
15
     report.
16
                   Are you there?
17
            Α.
                   Yes.
18
                   You have a Table 13.
19
                   Do you see that?
20
                   Yes.
            Δ
21
            Ο.
                   Okay. You have a summary of
22
     monetary value of harms due to prescription
23
     opioid shipments based on Dr. Cutler's
     Approach 2.
24
25
           Α.
                  Right.
```

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```
OUESTIONS BY MR. KEYES:
           Ο.
                  Correct?
3
                  MR. SOBOL: Objection.
                  THE WITNESS: You will find the
           basis for these numbers in my damages
            report.
     QUESTIONS BY MR. KEYES:
7
                  Okay. Turning to the fifth --
9
     the first form of harm, mortality deaths,
10
     correct?
11
                  MR. SOBOL: Well, in these two
12
            tables?
13
                  MR. KEYES: Yes.
14
     QUESTIONS BY MR. KEYES:
15
                  The costs that you are
16
     quantifying regarding mortality deaths are
17
      costs borne by individuals or communities,
18
     not costs borne by Summit County or Cuyahoga
19
     County, correct?
2.0
           Α.
                  See, that's not correct.
21
                  Where do you show the mortality
22
     deaths form of harm as causing specific costs
23
     borne by Summit County or Cuyahoga County?
24
                  MR. SOBOL: Objection.
                  THE WITNESS: I didn't do that.
```

```
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                   Okay?
                   Now, go to the prior page.
                   You have a Table 12, correct?
            Q.
                   Summary of harms due to
     shipments from 2006 to 2016, correct?
                   That's correct.
                   And in each of these two
     tables, Tables 12 and Table 13, you have six
10
     different forms of harm, correct?
11
            Α.
                   Correct.
                   The sixth form of harm in each
13
     table is titled "Bellwether Government
14
     Costs, " correct?
15
            Α.
                   That's correct.
16
                   And you're referring to Summit
17
     County and Cuyahoga County, correct?
18
                   That's correct.
19
                   And the numbers that you list
20
     here in each chart as being bellwether
21
     government costs are calculations that you
```

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22

23

24

25

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```
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```

MR. SOBOL: Objection.

THE WITNESS: You will find --

imported from your damages report?

```
I didn't -- in each of these other
           harm categories --
                  MR. SOBOL: There's no
           question. You answered the question.
                  MR. KEYES: Don't interrupt
           him. Let him finish his answer.
                  Keep going.
                  MR. SOBOL: Well, I think he
9
           did, and then he started volunteering
10
           stuff.
11
                  MR. KEYES: No, sir. He's
12
           answering the question. Please stop
13
           interrupting him when he says
14
           something that perhaps you don't like.
15
                  Continue, please.
16
                  MR. SOBOL: I love it. I love
17
           everything he has to say. I just
18
           don't want him volunteering things
19
           when I'm hungry and want to go to
2.0
           lunch.
21
                  But go ahead --
22
     QUESTIONS BY MR. KEYES:
23
                  You were saying?
24
                  MR. SOBOL: -- Professor
```

```
THE WITNESS: I was saying, in
           these categories I estimated the total
           costs without necessarily attributing
           them to who bore those costs.
     OUESTIONS BY MR. KEYES:
                  Okay. So in your Tables 12 and
     13, when you are talking about the form of
     harm being mortality and deaths, have you
     quantified the portion of the costs you've
     calculated as being attributable or borne by
11
     Summit County or Cuyahoga County government?
                  That was not my assignment
13
     here. And if I can volunteer an example, at
14
     the risk of irritating my counsel, with
15
     respect to something like NAS costs --
16
                  My question has nothing to do
17
     with NAS. I'm asking about mortalities and
18
     deaths. Answer the question posed.
19
                  MR. SOBOL: Now you're
20
           interrupting him.
21
                  MR. KEYES: I am, because he's
22
           talking about something that the
23
           question didn't address at all.
24
                  MR. SOBOL: All right. We're
25
           going to take a lunch. We're going to
```

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```
MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: I thought in
           previous you had also asked about
           morbidity. Well, I was going to give
           you an example of morbidity. This
           will clear it up in one minute.
                  With respect to morbidity
9
           costs, what I estimate are --
     QUESTIONS BY MR. KEYES:
10
11
                  I didn't ask about morbidity,
12
     sir. I've asked you about mortality and
13
     deaths.
14
                  MR. SOBOL: I told you --
15
     OUESTIONS BY MR. KEYES:
                  Okay. Please answer the
16
           Ο.
17
     question.
1.8
           Α.
                  Okay.
19
                  MR. SOBOL: So which question?
2.0
     QUESTIONS BY MR. KEYES:
21
                   In Tables 12 and 13, when you
22
     were talking about the form of harm being
     mortality and deaths, have you quantified
23
24
     anywhere in your report the portion of those
     costs that you say were borne by the Summit
```

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```
take lunch.
     QUESTIONS BY MR. KEYES:
                  In Tables 12 and 13 --
                  I don't mind. I don't mind.
     Let's finish this.
                  In Tables 12 and 13, when
     you're talking about --
           Α.
                  Let's talk about morbidity.
                  -- the form of harm being
10
     mortality and death, have you quantified
11
     anywhere in your report --
12
                  MR. SOBOL: You got overridden
13
           on it. Start the question again. You
14
           got overridden. Just start the
15
           question again.
16
                  He wants a clean question. He
17
           wants to continue. Start with a clean
18
           question.
19
     OUESTIONS BY MR. KEYES:
20
                  In Tables 12 and 13, when you
21
     were talking about the form of harm being
22
     mortality and deaths, have you quantified
23
     anywhere in your report the portion of those
24
     costs that you say were borne by Summit
25
     County or Cuyahoga County governments?
```

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County or Cuyahoga County governments?

```
2
                  MR. SOBOL: Objection. Asked
3
           and answered
                  THE WITNESS: Okay. This
           question is part of a discussion we've
           had about whether or not the, as I
           understand it, the bellwether
           government costs line is a complete
9
           identification of the cost borne by
10
           the plaintiffs in the categories that
11
           I've put forth in these tables.
12
                  The answer to that is, no, it's
13
           not the case.
14
                  And you then asked me, have I
15
           done a specific allocation of some of
16
           these costs to the plaintiffs.
17
                  And what I did was to look at
           the total. But if you are familiar
18
19
           with what the components of that total
2.0
           are, you would see some of those would
21
           be borne by the governments. You
22
           know, for example, some of the people
23
           who die would have been government
24
           employees. Some of the other people
           who die would have paid taxes to the
```

```
So the total lost productivity,
           which is a component of the value of
           statistical life, is a very good
           example of a cost that is borne by
           different agents.
                  Now, my assignment, as I
           understood it, was to give the total.
           You're asking if that total contains
           things by the governments. The answer
11
           is yes.
12
     QUESTIONS BY MR. KEYES:
13
                  No, I didn't ask that. I
           Ο.
     didn't ask whether the total contains that.
14
15
                  I asked you specifically: Have
16
     you quantified anywhere in your report the
17
     portion of those costs that you say were
18
     borne by the Summit County or Cuyahoga County
19
     governments specific to mortality and deaths
20
     anywhere in your report?
                  MR. SOBOL: Objection. Asked
21
22
           and answered
23
                  THE WITNESS: Okay. I just
           gave what I thought is an important
24
           and thorough answer to that question,
```

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```
I didn't attempt to break out the --
            what you would call in economic terms
            the incidence of those costs according
            to the various actors.
                   MR. KEYES: Okay. Why don't we
            take a break for lunch.
                   VIDEOGRAPHER: The time is
            1:24 p.m., and we're off the record.
             (Off the record at 1:24 p.m.)
                   VIDEOGRAPHER: The time is
10
11
            2:08 p.m., and we're on the record.
12
     OUESTIONS BY MR. KEYES:
13
                   Professor McGuire, do you have
     McGuire Exhibit 6 in front of you, which is
14
15
     your report regarding nuisance?
16
           Α.
                   Yes, I do.
17
                  Is it accurate to say that in
18
     this report you attempt to measure the costs
19
     of harms that result from the use or abuse of
2.0
     all opioids in Summit County and Cuyahoga
21
     County?
22
                   No, that wouldn't be accurate.
23
                   Do you attempt to distinguish
24
     between the costs attributable to the use or
```

abuse of illicit opioids versus the use or

```
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            which is that these cost categories
            contain many components. And what I
            did is estimate the total. And those
            components would be borne by -- some
            for the individual, some for other
            members of the community, some by the
            county governments.
                   What I did not do, which is a
            more direct answer to your question,
            is I didn't allocate those costs in
11
            each of these categories to any of
            those agents.
13
     QUESTIONS BY MR. KEYES:
14
                  And the same is true for
15
     mortality deaths, morbidity, babies with NAS,
     crimes and child maltreatment, correct?
16
17
                  MR. SOBOL: Objection. Form.
18
           Compound.
19
                   THE WITNESS: The same is true
2.0
            with respect to my work in this
21
            report, which was to identify the
22
            total of those costs and then -- I
23
            mean, in answer to your question, some
```

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24

25

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of those costs do fall on different

agents, including the governments, but

```
abuse of prescription opioids?
           Α.
                  Well, I'm interested in harms
     and costs in either case.
                  In your report, do you attempt
     to distinguish between the costs attributable
     to the use and abuse of illicit opioids
     versus the use and abuse of prescription
     opioids?
9
                  MR. SOBOL: Objection. Asked
10
           and answered.
11
                  THE WITNESS: I'm interested in
12
           the sum of the effects of both of
13
           those.
14
     QUESTIONS BY MR. KEYES:
15
                  Okay. But in your
16
     calculations, do you break out the costs that
17
     you quantify between the costs that are
18
     attributable to the use or abuse of illicit
19
     opioids versus the costs resulting from the
2.0
     use or abuse of prescription opioids?
21
                  MR. SOBOL: Objection. Asked
22
           and answered.
                  THE WITNESS: Generally I just
23
24
           look at the total.
25
```

```
QUESTIONS BY MR. KEYES:
2
                  Okay. In fact, if you look at
     paragraph 39 on page 22...
                  I'm there.
           Ο.
                  The last paragraph you say, "As
     a reminder, the harms I attribute to
     shipments of prescription opioids includes
     harms due to the subsequent use of other
     opioids, e.g., heroin, fentanyl, caused by
     the shipments."
11
                  Correct?
12
           Α.
                  That's correct.
13
                  Okay. So anywhere in your
           Ο.
14
     report do you separate out the costs that you
15
     quantify based on harms resulting from the
     use or abuse of illicit opioids from the use
16
17
     or abuse of prescription opioids?
                  MR. SOBOL: Objection. Asked
18
19
           and answered several times now.
2.0
                  THE WITNESS: I think I just
21
           look at the totals.
22
     OHESTIONS BY MR KEYES.
23
                  Anywhere in your report do you
24
     separate out the costs that you quantified
25
     based on harms resulting from the use or
```

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```
MR. SOBOL: Objection. Asked
           and answered.
                  THE WITNESS: I think it's the
           same question, but I just looked at
           the total, which could have been due
           to either diversion or consumption of
7
           the person to whom it was prescribed.
     QUESTIONS BY MR. KEYES:
9
                  Do you separately measure the
10
     cost of the harms resulting from people using
11
     or abusing prescription opioids that were
     either made or distributed by the defendants
12
13
     versus harms resulting from people using or
14
     abusing prescription opioids that were made
15
     or distributed by entities other than the
16
     defendants?
17
                  I don't attempt to distinguish
18
     those made or distributed by the defendants
19
     from shipments that were made or distributed
2.0
     by those who might not have been a defendant.
21
                  Do you, anywhere in your
22
     report, Exhibit Number 2, measure the costs
23
     resulting from harms that are attributable to
24
     the defendants' misconduct?
                  No. I don't attribute these
```

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```
abuse of prescription opioids that were
     diverted from the harms resulting from the
     use or abuse of prescription opioids that
     were used by the people to whom they were
     prescribed?
                  I understand what you mean by
     diverted
                  Do you mean -- it's hard to
     give a clear answer to that question.
10
                  I looked at the total about
11
     whether the harm came from a diversion or
12
     whether the harm came from the direct
13
     consumption of the person who was prescribed
     the opioids.
14
15
           Ο.
                  You looked at the total,
     including both of those categories?
16
17
           Α.
                 It could have been in either
18
     category, yes.
19
           Ο.
                  Did you separately measure the
20
     costs of the harms resulting from people
21
     using or abusing prescription opioids that
22
     were diverted as opposed to prescription
23
     opioids that were used by the people to whom
24
     they were prescribed?
25
           Δ
                  Yeah
```

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```
harms to misconduct.
                 In fact, if we look at page 27,
           Ο.
3
     note 57, you say, quote, "In this report, I
     assess the external costs associated with
     prescription shipments without regard to
     whether they were due to defendants'
     misconduct."
                  Correct?
9
           Α.
                  That's what I say there, yes.
10
           Ο.
                  And that's an accurate
11
     statement?
12
           Δ
                  That's an accurate statement.
13
                  And you say, quote, "I thus use
14
     the share of harms due to shipments without
15
     multiplying by Professor Rosenthal's estimate
16
     of the share of shipments due to misconduct,"
17
     end quote.
18
                  Do you see that?
19
                  I do, yes.
           A.
2.0
                  And is that an accurate
21
     statement?
22
                  Yes, it is.
23
                  You state in your report that
24
     you were advised by counsel for the
     plaintiffs that they intend to prove that the
```

```
public nuisance regarding the shipment of
     prescription opioids arose in substantial
     part from the unlawful conduct by the
     defendants.
            Α.
                   I'm sorry, where are you now?
                   Page 16, paragraph 28.
            Δ
                   Okay. I see.
            Ο.
                   Okay. Do you see that
     sentence?
            Δ
                   I see the sentence.
11
                   Okay. What does, quote, "in
            Ο.
     substantial part" mean?
13
           Α.
                  In large part.
14
            Ο.
                  And what specific objective
15
     criteria do you -- would you use to capture
     the notion of "in substantial part"?
16
17
                   MR. SOBOL: Objection.
18
                   THE WITNESS: Well, this is
19
            something that I've been advised by
2.0
            counsel that they intend to do. It's
21
            not something that I intend to do.
22
     OHESTIONS BY MR KEYES.
23
                   Which counsel advised you of
24
     this?
25
                  I don't remember
```

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```
well as those not due to misconduct.
     QUESTIONS BY MR. KEYES:
3
                  And so anywhere in your report
     do you quantify the cost of harms from the
     public nuisance that did not arise from the
     unlawful conduct of the defendants?
                  MR. SOBOL: Objection.
                  You can answer.
                  THE WITNESS: Okay. Well, I
10
            think I was answering your question in
11
            perhaps a too narrow way. I was
            answering it with respect to the
12
13
            Rosenthal question of the -- that
            particular unlawful -- what will be
14
15
            alleged unlawful act, which is the
16
            misleading advertising.
17
                  What other lawful/unlawful
18
            elements of a definition here, I'm not
19
            in a position to say.
2.0
     QUESTIONS BY MR. KEYES:
21
                  Okay. You said before that you
22
     didn't quantify the cost of the harms from
23
     the public nuisance that were due to
24
     defendants' misconduct.
                  MR. SOBOL: Objection. Asked
```

```
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                   Okay. But you don't quantify
     in this report the cost of harms from the
     public nuisance that are linked up with
     defendants' unlawful conduct, right?
                  MR. SOBOL: Objection.
                  THE WITNESS: Yeah, that's
           correct. That's correct.
     QUESTIONS BY MR. KEYES:
                  Did you attempt anywhere in
10
     your report to quantify the cost of harms
11
     from the public nuisance that did not arise
     from the defendants' unlawful conduct?
13
                  MR. SOBOL: Objection.
14
                  THE WITNESS: I was trying to
15
           make sure I get the logic of your
16
           question correct.
17
                  The application of the
18
           Rosenthal share, which I did not do in
19
           this report in terms of quantifying
2.0
           harms, can be interpreted as some that
21
           were due to misconduct and the balance
22
           not due to misconduct
```

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23

24

25

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So in that I sum both those

things, I do count both those due to

misconduct in the Rosenthal sense as

```
and answered.
                  THE WITNESS: I didn't separate
           those out from the total. They would
           be included in the total.
     OUESTIONS BY MR. KEYES:
           Ο.
                  Right.
                  So my question was: Anywhere
     in your report do you quantify the cost of
     harms from the public nuisance that did not
     arise from the defendants' unlawful conduct?
10
11
                  In answering, I'm not equating
12
     misconduct as studied by Professor Rosenthal
13
     with unlawful contact -- sorry, unlawful
     conduct, which I understand to be a broader
14
15
     term
16
                  So if I answer it in the sense
17
     of Rosenthal, I count both: those
     attributable to Rosenthal misconduct and
18
19
     those not attributable to Rosenthal
     misconduct. That's an element of lawful.
2.0
21
                  There may well be other
22
     elements of what is lawful and unlawful that
23
     apply here that I'm not in a position to talk
24
     about.
                  And the costs that you have
```

quantified in this report are the costs of harms in Summit County and Cuyahoga County, 3 correct? That's generally correct. Ο. Did you back out of those cost calculations the cost of harms that occurred in Akron or Cleveland? My estimates were county-level only, without attributing them to jurisdictions within the county. 11 Q. Right. 12 So did you back out of those 13 calculations at any point the cost of harms 14 that occurred in the cities of Akron or 15 Cleveland? 16 Α. I would say no, they were 17 county-based calculations. 18 Even though the City of Akron and the City of Cleveland have been 19 20 specifically excluded from the track 1 case, 21 correct? 22 MR. SOBOL: Objection. 23 THE WITNESS: Well, I'm just following what I was asked to do. And 24 the reasons. I don't know

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```
or days for which clinically
           appropriate use of opioids would
3
           reduce pain, which is a kind of
           quantification.
     OUESTIONS BY MR. KEYES:
                  Where in your report do you
     have a chart that shows the quantification of
     the benefit of prescription opioids in the
9
     form of pain reduction?
                 I don't think I have a chart.
10
           Α.
11
                  Where is the number that you
     calculated to show the dollar benefit of
12
13
     prescription opioids in the form of pain
     reduction?
14
15
           Δ
                  Okay. So you're changing the
     question a little bit.
16
17
                  Quantification isn't
     necessarily a dollar. Quantification can be
18
19
     done in other units. And I responded by --
2.0
     part of what I did, which was a
21
     quantification in terms of days of -- days
22
     with improved pain.
23
                  Do you want to see where that
24
     is? Is that -- I'm not sure what the
     question is now.
```

```
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```

```
QUESTIONS BY MR. KEYES:
                  You do recognize that
     prescription opioids can confer positive
     benefits on particular individuals when used
     in accordance with scientifically acceptable
     clinical criteria?
           Ο.
                  What are those positive
     benefits?
10
                  Well, there could be a
11
     reduction in pain. There could be an
     improvement in function.
13
           Q.
                  Anything else?
14
           Α.
                  Those are the primary ones.
15
                  Do you at any point in your
16
     report quantify the benefit of prescription
17
     opioids in pain reduction?
18
                  MR. SOBOL: Objection.
19
                  You can answer.
20
     OUESTIONS BY MR. KEYES:
21
           Ο.
                  Not discuss it; quantify it.
22
                  MR. SOBOL: Objection.
23
                   THE WITNESS: What I do in my
24
            report is an assessment of the
25
            quantification of the amount of time
```

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Where in your report do you

```
show the dollar value of the benefit of
     prescription opioids in the form of pain
     reduction?
                  MR. SOBOL: Objection.
6
                  THE WITNESS: In terms of the
           question of pain reduction, I didn't
           need to go so far as to quantify it in
9
           terms of dollars.
     QUESTIONS BY MR. KEYES:
10
11
                  Do you at any point in your
12
     report quantify the benefit of prescription
13
     opioids in increased productivity?
                  I analyze studies on the effect
14
15
     of opioids on what I -- by productivity, I
16
     mean workforce productivity, and determine
17
     that whatever benefits there are are less
     than costs, which is sufficient for me to be
18
19
     able to say that with respect to this
2.0
     category of potential benefits and costs, the
21
     costs exceed the benefits.
22
                  Did you at any point in your
23
     report quantify the benefit of prescription
24
     opioids in the form of increased
     productivity?
```

MR. SOBOL: Objection. Asked and answered. THE WITNESS: I think this is the same question. And my answer, I hope, will be the same, which is that I studied the research literature on the effects of prescription opioids on workforce productivity, and as a result of that study, concluded that the positive effects on productivity are outweighed by the negative effects on productivity. 14 So there's no net benefit to be 15 had in the benefit column in terms of dollars or in terms of anything else 17 with respect to opioids on that score. 18 And that was enough for me to be able 19 to say I'm going to be conservative 2.0 and not count those additional costs 21 that exceed the benefits. 22 OHESTIONS BY MR KEYES. 23 Anywhere in your report do you 24 show the dollar value of the benefit of 25 prescription opioids in the form of increased

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```
OUESTIONS BY MR. KEYES:
                  Did you examine any indirect
3
     benefits from the use of prescription
     opioids?
           Α.
                  I'm sorry, what do you mean by
      "indirect benefits"?
            Ο.
                  Nondirect.
            Δ
                   Do you have another synonym you
9
     can give me?
10
            Ο.
                  No.
11
                   You would agree that increased
12
     productivity and reduction of pain are direct
13
     benefits from the use of prescription
14
     opioids?
15
                   MR. SOBOL: Objection.
                   THE WITNESS: Well, people use
16
17
            these terms in different ways, so I'm
1.8
            just trying to find out -- even the
19
            word "indirect" in the literature is
2.0
            used in different ways by different
21
           people.
22
     QUESTIONS BY MR. KEYES:
23
                  Did you examine any indirect
24
      savings to Summit County or Cuyahoga County
     from the mortality that results from the use
```

```
productivity?
                   MR. SOBOL: Objection. Asked
           and answered.
                   THE WITNESS: I understand this
            to be the same question, and if for
            some reason it's a different question,
            I'm happy to try to answer that new
            question.
                   What I did in my report was to
            investigate the research literature on
11
            the effects of opioid prescriptions on
12
            workforce productivity and determined
13
            that the negative effects of opioid
14
            prescriptions outweighed the positive
15
            effects in terms of productivity.
16
                   So once that's established,
17
            quantification in dollar terms isn't
18
            necessary in order to say that the
19
            costs exceed the benefits.
2.0
                  So as long as, you know, costs
21
            are greater than benefits, it's not --
22
            I don't need to know exactly the
```

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report.

23

24

25

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dollar benefits in order to make a

determination of my assignment in the

```
or abuse of opioids?
                  MR. SOBOL: Objection.
3
                  THE WITNESS: Well, I'm still
           not sure what you mean by "indirect"
           here, so if you can help me with that,
           I'll give it a shot.
     OUESTIONS BY MR. KEYES:
                  Sure
9
                  I thought you mentioned earlier
10
     in the deposition in response to a question
11
     that as a result of the mortality, there
     would be dollar impacts -- there could be
12
13
     dollar impacts on Summit County or Cuyahoga
14
     County?
15
           Δ
                  Yes, I did that.
16
                  And some of those could be
17
     positive dollar impacts, and some of those
18
     could be negative, correct?
19
                  Well, that's not what I said
2.0
     earlier. I used an example of what I would
21
     call a negative impact, which is if someone
22
     dies, then -- I think the example I used was
23
     tax revenue, that if there's, for example, a
24
     local income tax or even a sales tax, some of
     a person's income would not be available for
```

```
their consumption. They would be
     contributing to public revenues.
3
                  And why do you call that a
     negative effect?
                   Well, it's a negative effect on
     the county because the income is gone from
     the individual, and that means less tax
     collections.
           Ο.
                  And could there be positive
     dollar impacts on Summit County or Cuyahoga
11
     County from the mortality that you attempt to
12
     quantify?
13
                   MR. SOBOL: So is the county
14
           better off with the people being
15
            killed by opioids?
16
                   MR. KEYES: That's not my
17
            question.
18
                   You can answer my question, not
19
           his. He can ask you questions later.
2.0
                   THE WITNESS: No, generally
21
            not..
22
     OHESTIONS BY MR KEYES.
23
                   When you referred earlier to
     studying the economic literature on workforce
24
25
     productivity and the impact of opioids on
```

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```
in the United States that likely would
     have -- some of them, I'm sure, included
3
     Summit and Cuyahoga.
4
           Ο.
                  Why are you so sure?
                  Because it's my understanding
           Α.
     what the studies did.
7
                  Did you look at any studies
     that examined the data specific to Summit
9
     County and Cuyahoga County?
10
           Α.
                  Examined the data with respect
11
     to what?
12
           Q.
                  Did you look at any studies
13
     that examined data specific to Summit County
     or Cuyahoga County regarding the impact of
14
15
     prescription opioids on worker productivity?
16
                  One of the Ohio reports that --
17
     I think it's -- I refer to it as a Swank
18
     report -- is Ohio-specific, and it talks
19
     about productivity for Ohio. And I don't
2.0
     remember whether it broke down its findings
21
     county by county, but it would have applied
22
     to our bellwether.
23
                  In your report you reference
24
     alcohol as a potential analogy.
                  Do you recall that?
```

```
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     that productivity, what studies did you look
                   There's a set of studies that I
     refer to in my report, are the ones I looked
           ο.
                  Okay. Can you name any of
     them?
           Α.
                   Right now?
           ο.
                   Yeah.
                   Yes. The authors include
11
     Kilby, I think Angela is her first name;
     Janet Currie and Molly Schnell; Alan Krueger;
13
     a first authored paper by Aliprantis. And
14
     there's one or two more that I can't remember
15
     right now.
16
           Ο.
                  Did any of the studies you just
17
     listed examine the impact of prescription
18
     opioids on worker productivity in Summit
19
     County or Cuyahoga County?
20
                  I think they would have --
```

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21

22

23

24

25

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there're broader studies that would have

included -- I'd have to go back and check

broad-based studies that might have been the

whole United States or perhaps large counties

study by study, but most of them were

```
MR. SOBOL: Objection.
                  THE WITNESS: I do.
     OUESTIONS BY MR KEYES.
           Ο.
                  Yes?
                  MR. SOBOL: Objection.
6
     OUESTIONS BY MR. KEYES:
                  Do you recall that?
                  MR. SOBOL: Objection.
                  THE WITNESS: I do recall that.
9
10
     OUESTIONS BY MR. KEYES:
11
                  And do you remember saying that
12
     alcohol yields a, quote, "overwhelming net
13
     cost to society"?
14
           Α.
                  I was --
15
                  MR. SOBOL: No, that's a
16
           mischaracterization of the report.
17
                  Are you referring to either
18
           report?
19
                  MR. KEYES: I'm referring to a
2.0
           specific statement he made.
21
                  THE WITNESS: Yeah, let me take
22
           a look. I think that would clear up
23
           any confusion here.
24
                  Okay. So this is paragraph 27.
           I think there's just one paragraph,
```

```
yeah, where it's not exactly an
            analogy, but it's a kind of
            clarification that the -- another, you
            know, potential in this case, I quess
            the substance that might be considered
            a -- that may have overwhelming costs
            versus benefits, is what I'm
            mentioning here, is not sufficient for
            it to be regarded as a public
            nuisance.
11
     QUESTIONS BY MR. KEYES:
12
                  I'm not sure I understood your
           Ο.
13
     answer.
14
                  You said that even though
15
     alcohol may cause overwhelming net costs to
16
     society, it is not necessarily a public
17
     nuisance?
18
                  MR. SOBOL: Objection. That's
19
           a misreading of the report.
2.0
                  MR. KEYES: I'm not asking
21
            about the report. I'm asking about
22
           vour answer.
23
                  THE WITNESS: What I -- my
            answer is that I didn't use it as an
24
            analogy. I use it as an illustration
```

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```
cost to society, right?
2
                  MR. SOBOL: Objection.
3
           Mischaracterizes the testimony.
                   THE WITNESS: Yeah, that's not
4
            exactly what I said.
     QUESTIONS BY MR. KEYES:
                  You said, "An economic weighing
7
     of the benefits versus costs of the
     prevalence of alcohol could yield an
10
     overwhelming net cost to society, yet for
11
     myriad reasons, society condones the
12
     prevalence of alcohol, and subject to its
13
     regulation and appropriate use, selling,
14
     buying and consuming alcohol are legal
15
     activities."
16
           Α.
                  Yes.
17
                   MR. SOBOL: Objection.
1.8
            Mischaracterizes the testimony. It's
19
            only one portion of the answer that
2.0
            you just read back.
21
     QUESTIONS BY MR. KEYES:
22
                   I just read you what you said
23
     in your report.
24
                   I understand that.
```

```
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```

```
of a situation in which the costs may
           be overwhelming in relation to the
           benefits. And that's a hypothetical,
           as I say here. I'm sure you know. I
           didn't do that analysis. I'm just
           saying, well, this might be true.
                  Society might decide to condone
           that and not pursue any legal theory
           of fault related to alcohol.
10
     OHESTIONS BY MR KEYES.
11
                  Because society has determined
     that buying and selling and consuming alcohol
13
     within certain constraints is permissible?
14
                  That might be part of it.
15
                  And yet selling and
16
     distributing prescription opioids is legal
17
     within certain constraints, correct?
18
                  Well, I don't like to talk too
19
     much about what is legal and illegal, but my
20
     understanding is that some of that is fine.
21
                  And if I understand you
22
     correctly, you're saying alcohol, because of
23
     society's determination that it can be a
     legal activity, it is not a public nuisance
24
25
     even though it can create an overwhelming net
```

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```
Α.
                  And as that sentence says "that
     for myriad reasons."
3
                  So I understood your question
     to be asking about the lawful/unlawful, the
     condonence of selling alcohol, but there's
     other things that may factor into that.
                  What differentiates alcohol
     from prescription opioids if they can both
9
     create an overwhelming net cost to society
10
     yet be condoned by society and be legal
11
     activities within certain constraints?
12
                  MR. SOBOL: Objection.
13
                  THE WITNESS: Okay. First of
14
           all, I'm -- I don't know that that's
15
           true with respect to alcohol. I'm
16
           only using that as an illustration to
17
           capture that the overwhelming cost
18
           versus benefits isn't a sufficient
19
           condition in order to have someone
2.0
           qualify from a legal perspective as a
21
           public nuisance.
22
     QUESTIONS BY MR. KEYES:
23
                  And if it's not sufficient,
24
     then what else do you need to qualify from a
     legal perspective as a public nuisance as you
```

```
approach it as an expert in this case?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, I
           understood my assignment to be guided
           by a definition of public nuisance
           that is based on the law, that I
           interpreted as having three components
           that we discussed earlier today.
     OUESTIONS BY MR. KEYES:
                  And that's the legal definition
11
     that you're applying that you got from
12
     counsel, correct?
13
           A.
                  Well, the legal definition is
14
     in paragraph 7 or something in this second
15
     report. And my interpretation of that in
16
     terms that an economist can work with are. I
17
     think, in paragraph 38.
18
           Ο.
                  So in determining that there's
19
     a public nuisance, you are applying your
20
     interpretation in paragraph 38 of a legal
21
     definition that you were supplied in
22
     paragraph 7?
23
                  Well, I broke down the -- what
     I thought to be the essential elements of
24
25
     paragraph 7, which is a legal definition, and
```

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```
Α.
                   That's not correct.
            ο.
                   How is that incorrect?
                   Because that's not what I do.
            Δ
            Ο.
                   You have an entire Appendix C
     on mortality, correct?
            Δ
                  Correct.
                  And you identify mortality as
     one of the harms that results from the opioid
9
     epidemic, correct?
10
           Α.
                  That's correct.
11
            Ο.
                  And then you quantify the costs
12
     of that harm, correct?
13
            Α.
                  Yes.
14
            Ο.
                  Okay. And --
15
           Α.
                  But still, I'm not confirming
16
     your question.
17
                   When you quantify the costs of
18
     mortality as a harm that results from the
19
     opioid epidemic, you include all deaths
     attributable to overdoses on opioids?
21
                   First of all, that's not what I
22
     do.
23
                   Why not?
24
                   How is it wrong?
                   Because it's not what I do.
```

```
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     I said, here's what I think I need to do.
     And that's -- I am being transparent. That's
     what I said I needed to do; that's what I
                  And you're not applying the
     standard for a public nuisance that you
     described in economic terms in paragraph 16
     of your report?
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
11
           Ο.
                  Correct?
12
                  MR. SOBOL: Objection.
13
           Mischaracterizes the testimony.
14
                   THE WITNESS: Well, I think as
15
            we discussed earlier, this is not a
            definition. If you want a definition,
17
            it's paragraph 38 where I use the word
18
            "definition" and I think explain quite
19
           clearly how I define a public
2.0
           nuisance.
21
     QUESTIONS BY MR. KEYES:
22
           O. You calculate what you think
23
     are the costs of mortality as a result of the
```

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County, correct?

24

25

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opioid epidemic in Summit County and Cuyahoga

```
Tell me how it's wrong then.
                  I do not -- it's wrong to say
     that I quantify mortality costs due to the
     opioid epidemic. I don't do that.
                  What do you do?
                  What I do is contained in my
     report, which is to quantify the harm due to
     shipments.
9
                  Okay. You purport to quantify
10
     the costs of mortality as a harm attributable
11
     to shipments of opioids, correct?
                  MR. SOBOL: Objection.
12
13
     QUESTIONS BY MR. KEYES:
14
                  Is that correct?
15
                  MR. SOBOL: Objection.
16
                  THE WITNESS: Do you mind
17
           reading it to me again? Sorry.
18
     OUESTIONS BY MR. KEYES:
19
                  You purport to quantify the
2.0
     costs of mortality as a harm attributable to
21
     shipments of opioids, correct?
22
                  MR. SOBOL: Objection.
23
                  THE WITNESS: Yeah, that sounds
24
           right to me.
25
```

```
QUESTIONS BY MR. KEYES:
                  And in doing so, your
     calculations include deaths from overdoses on
     opioids that you say are attributable to
     shipments of opioids, correct?
                  That's correct.
                  And those deaths include
     overdoses on illegal opioids as well as
     deaths on -- from overdoses of prescription
     opioids, correct?
11
           Α.
                  That's also correct.
12
                  And those deaths include
13
     overdoses on prescription opioids that were
14
     diverted as well as deaths from overdoses on
     prescription opioids that were prescribed to
15
16
     the person who died?
17
           Α.
                  They would include deaths for
18
     the person who received the prescription as
     well as someone who might have taken those
19
20
     pills if they were resold or diverted in some
21
22
                  In your calculations, do you
           Ο.
23
     account for the fact that some of the
24
     opioid-related deaths in your calculations
25
     would have occurred at some point in the
```

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```
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            Α.
                   It does, yes.
            ο.
                   How so?
3
                   Well, Professor Cutler's
     method, which is what we're talking about
     here, attributes a share of opioid-related
     deaths to shipments, not 100 percent. So
     it's not attributing -- sorry -- not
     attributing all deaths to opioids to
     shipments.
9
10
                   In fact, the methodology is
11
     designed to be able to distinguish between
12
     deaths that might have occurred otherwise and
13
     those that can be reliably attributed to
14
     shipments.
15
                   And in quantifying what you say
16
     are the costs of mortality, you use the VSL,
17
     correct?
18
           Α.
                   I do, yes.
19
            Q.
                   What is the VSL?
2.0
                   VSL is an abbreviation for
21
     something called the value of a statistical
22
23
                   And you cite six studies in the
24
     section where you attempt to quantify the
```

```
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      absence of the users ever using prescription
3
                  MR. SOBOL: Objection.
                  THE WITNESS: What I do by
            attributing deaths to shipments, I
            address this issue by asking the
            question that -- asking the -- that
            logical question: If the shipments
            had been higher or lower, would the
            death rates have been higher or lower.
                  And the empirical connection
            that's established between that means
13
           that the deaths that I count are
14
           caused by the shipments.
15
     OUESTIONS BY MR. KEYES:
16
                  Now when you say you "addressed
17
     that issue," you're saying you address that
18
     issue by using percentages you receive from
19
     Professor Cutler, correct?
2.0
                  That's correct, yes.
           Δ
21
           Ο.
                  Okay. So does that methodology
22
     account for the fact that if there had been
23
     no prescription shipment -- opioid shipment,
     some people still would have used an illegal
24
```

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25

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drug and still would have died?

```
MR. SOBOL: Objection.
                  THE WITNESS: I would have to
           look to see how many I cited.
     QUESTIONS BY MR. KEYES:
                  Which of those six studies uses
           Ο.
     the VSL, if any?
           Α.
                  Well, some do. I'd have to go
     back and look
9
                  Would you like me to do that?
10
           Ο.
                  Why don't you look at page 61.
11
           Α.
                  All right. So what are you
12
     asking me?
13
                  I asked you which of the
14
     studies you cite in your discussion actually
15
     uses the VSL
16
           Α.
                  All right. Well, the one I
17
     discuss in the paragraph on page 61 uses the
18
     VST.
19
                  Is it your understanding that
2.0
     the VSL is usually used for regulatory
21
     purposes?
22
                  Well, it's used for many
23
     purposes, but including regulatory purposes,
24
25
                  Have you ever used the VSL to
```

costs of mortality, correct?

```
quantify costs in a lawsuit?
            Α.
                  I don't think I have, no.
                  You calculated the costs of
     morbidity in your report?
            A.
                  Aspect of the cost of
     morbidity.
7
           Ω
                  That aspect being the number of
     people who have opioid use disorder?
                  That aspect being the elevated
     health care costs associated with opioid use
11
     disorder.
12
           Ο.
                  And you calculate what you
13
     think are the number of people with opioid
14
     use disorder arising from shipments?
15
                  I, again, apply results from
     Professor Cutler to make that determination,
16
17
     ves.
18
                  In your calculations of the
     number of people with opioid use disorder as
19
20
     a result of shipments, you do not distinguish
21
     between people who used illicit opioids
22
     versus prescription opioids, correct?
23
                  Well, this is the same issue
24
     that you asked about with respect to
25
     mortality. The methodology applied by
```

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```
regardless of whether they used an illicit
     opioid or a prescription opioid, correct?
3
                  MR. SOBOL: Objection. Asked
4
           and answered several times.
                  THE WITNESS: Well, it's -- the
           question I'm called to answer is how
           much of the opioid disease is due to
           shipments, and I have very good
9
           estimates of that from Professor
10
           Cutler.
11
     QUESTIONS BY MR. KEYES:
12
                 Right.
13
                  But in doing your calculations
14
     and identifying the people with opioid use
15
     disorder, did you limit yourself to people
16
     who have opioid use disorder as a result of
17
     using prescription opioids?
1.8
                  MR. SOBOL: Objection. Asked
19
           and answered.
2.0
                  THE WITNESS: I began with a
21
           total number and then took a share of
           that total number that's attributable
23
           to shipments. That share could have
24
           come from either of those groups.
```

```
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      Professor Cutler is explicitly designed to
      sort that out and attribute the, in this
3
     case, disease due to the shipments.
                   But you don't distinguish
     between people who have the disease as a
     result of using an illicit opioid versus
     people who have the disease as a result of
     using prescription opioids --
                   MR. SOBOL: Objection.
10
     QUESTIONS BY MR. KEYES:
11
                   -- correct?
           Ο.
12
                   MR. SOBOL: Objection. Asked
13
            and answered.
14
                   THE WITNESS: Well, what is
15
            important for me is to distinguish
16
            those that are due to shipments and
17
           not due to shipments, and due to
18
            shipments could have different routes
19
           of cause.
2.0
                   And what -- I have that -- the
21
           precise answer that I need from
22
            Professor Cutler's report.
```

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OUESTIONS BY MR. KEYES:

23

24

25

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people who have opioid use disorder,

So your calculations include

```
OUESTIONS BY MR. KEYES:
                  Did you look at any data sets
     specific to Summit County or Cuyahoga County
     regarding the prevalence of opioid use
     disorder?
                  MR. SOBOL: Final or draft?
           Not drafts.
     OUESTIONS BY MR KEYES.
9
                  Did you look at any data sets
10
     specific to Summit County or Cuyahoga County
11
     regarding the prevalence of opioid use
12
     disorder?
13
                 I'm not 100 percent sure. The
     NSDUH -- sorry. A data set that's National
14
15
     Survey on Drug Use and Health, affectionately
16
     called NSDUH, has some sub-national and, I
17
     think for some years, some sub-state
     information. I may have looked at that at
18
19
     some point.
2.0
                  Can you be any more specific
21
     other than "may have looked at"?
22
                  Not right now, sorry.
23
                  Did you look at any Medicaid
24
     data regarding the prevalence of opioid use
     disorder in Summit County or Cuyahoga County?
```

What data did you look at? There was at one point consideration of a claims data set that included some Medicaid. What data set are you referring Well, it was a data set that was available by a claims processer, and I don't remember the name. 11 Ο. Where did you get that data? Α. I didn't ever get it. Ο. You considered looking at it 14 but did not look at it? 15 Well, by "look at data" I mean 16 look at, in some cases, summaries of data. 17 And with respect to Medicaid, the coverage was poor and unreliable for a basis for 18 19 estimates. 2.0 Ω What makes you say it was poor 21 and unreliable? 22 Δ Looking at the tables that had, 23 you know, for example, number of people who 24 were covered by Medicaid in different parts 25 of the state.

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determine the prevalence of opioid use disorder in that county? 3 No, I didn't analyze any claims data for that purpose. Ο. In your calculations, you assume that the prevalence of opioid use disorder in Cuyahoga County and Summit County is the same as the national rate of 9 prevalence, correct? 10 Yes, it's a general assumption, 11 which is widely regarded as being 12 conservative 13 Ο. Widely regarded by whom as 14 being conservative? 15 Α. By people who -- researchers 16 who study this field. 17 Can you point me to someone 18 specific who says that by looking at national 19 data you're being conservative? 2.0 Α. Well, there's two senses in 21 which it's conservative. One sense in which 22 NSDUH is conservative, it misses people who

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What criteria did you use to decide it was, quote, poor and unreliable? Well, my professional experience in doing empirical work, you need a certain amount of observations before you can really say anything. Did you analyze any data from the Summit County ADM Board to determine the prevalence of opioid use disorder in that county? 11 A. I'd have to go back and see what I did with the ADM Board. 13 Well, sitting here today, did Ο. 14 you look at that data at any point? 15 MR. SOBOL: Objection. Asked 16 and answered. 17 THE WITNESS: I would have to 18 go back and take a look to remind 19 mvself. 20 OUESTIONS BY MR. KEYES: 21 If you had used it, you would 22 have cited it in your report, correct? 23 Yes, I believe I would have. Did you analyze any claims data 24 25 from the Cuyahoga County ADAMHS Board to

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undercounts.

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```
2
                   And then with respect to the
 3
      local jurisdictions here, if you look at the
      death rate from opioids, the rate is greater
      in our bellwethers than the difference in the
      rates of opioid use disorder, implying that
      the local counts for opioid use disorder are
      also underestimates for our bellwethers
 9
                   To estimate the excess costs
10
      attributable to opioid use disorder in Summit
11
      County and Cuyahoga County, you used the
12
      Florence study findings?
13
                   MR. SOBOL: Objection.
14
      QUESTIONS BY MR. KEYES:
15
            Ω
                   Is that correct?
16
                   MR. SOBOL: Objection.
17
                   THE WITNESS: Well, if you look
18
            at the report, I considered a number
19
            of similar studies and then ended up
2.0
            using the Florence numbers for various
21
            categories of beneficiaries, depending
22
            on what their health insurance
23
            coverage was.
24
                   But these numbers are not very
            much different in all the studies I
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```

reluctant to acknowledge all their drug

may be institutionalized. Respondents may be

23

```
reviewed.
     OUESTIONS BY MR. KEYES:
                 Did you do anything to validate
     the Florence study?
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, one form of
           validation is checking to see whether
           the literature, as we call it,
           contains other papers that seem to
           come to similar findings, and that's
           exactly what validation means.
12
     QUESTIONS BY MR. KEYES:
13
                  You attempt to calculate the
     number of NAS cases that are attributable to
14
15
     opioid shipments, correct?
16
           Α.
                  I do.
17
           Ο.
                  And you first took data from
18
     the Ohio Department of Health website on the
19
     total hospitalizations among Ohio resident
20
     newborns for NAS, neonatal abstinence
21
     syndrome, correct?
22
           Δ
                  That's correct
23
                  And you assumed that all NAS
           Ο.
24
     cases were related to opioids, correct?
25
                 Well that's based on data from
```

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```
Ohio about what those NAS cases were due to.
     I had data on the relative charges of cases
3
     with and without NAS. I confined my
     assessment to only those costs, which I
     consider to be probably the most conservative
     part of this report. And those were the
     elements of my calculation regarding the
     costs due to shipments of extra NAS -- of the
9
     harms due to NAS in our bellwethers.
10
                  What is the correct term and
11
     diagnostic category for infants that
12
     experience withdrawal from opioids?
13
           Α.
                  I think it's a -- it's within
14
     the NAS category.
15
           Ο.
                  Is neonatal abstinence
16
     syndrome, NAS, the correct term and
17
     diagnostic category for infants who
18
     experience withdrawal from opioids?
19
                  MR. SOBOL: Objection.
2.0
                  THE WITNESS: You're outside my
21
           expertise. Sorry.
22
     QUESTIONS BY MR. KEYES:
```

Did you do any research into

whether the correct term and diagnostic

category for infants who experience

```
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     Ohio.
                  What do you mean it's based
     on --
                  Well, it's based -- I didn't
     make that up. I referred to -- I'd have to
     again look to see what the specific reference
7
           Q.
                  Well, you --
                  But the information I had
     indicated that almost all cases of NAS in
11
     Ohio were due to opioids.
                  What is your authority for that
13
     proposition, that almost all cases of NAS in
14
     Ohio were due to opioids?
15
                 I'd need to look. I don't know
           Α.
     if it's in the appendix or the text, so...
16
17
                  According to the Ohio
18
     Department of Health, virtually all cases of
     NAS are due to opioids. That's paragraph 53.
19
20
                  Did vou consider Professor
21
     Young's opinions on NAS in doing your
22
     calculations?
23
           Δ
                 I don't think I needed
```

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24

25

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Professor Young to do this. I had Ohio data for a count. I had this information from

```
withdrawal from opioids is neonatal
     abstinence syndrome?
3
                  I think this sentence addresses
     that. "According to the Ohio Department of
     Health, virtually all cases of NAS are due to
     opioids."
6
                  That's what I needed to know.
                  Okav. Do vou have an
           Ο.
9
     understanding as to whether practitioners
10
     distinguish between neonatal abstinence
11
     syndrome and neonatal opioid withdrawal?
12
           A.
                 Distinguish in what way?
13
                  When classifying or reporting
14
     incidence, whether they appropriately
15
     distinguish between neonatal abstinence
16
     syndrome and neonatal opioid withdrawal?
17
                  MR. SOBOL: Objection.
18
                  THE WITNESS: Again, that's
19
           outside my expertise.
2.0
     QUESTIONS BY MR. KEYES:
21
                  Did you look into that?
22
                  MR. SOBOL: Objection. Asked
23
           and answered.
24
                  THE WITNESS: I think the
           statement that virtually all cases of
```

23

NAS are due to opioids is exactly what I need to know. QUESTIONS BY MR. KEYES: In your calculations on the cost of crime that you say results from shipments, you used NIBRS data? 7 That's correct. Did you look at any data specific to Summit County or Cuyahoga County? 11 What data did you look at that was specific to Summit County or Cuyahoga 13 County? 14 Α. The data in the NIBRS includes the county indicator. Those were the crime 15 counts I used. 16 17 Ο. Did you consider whether the 18 crime rate has stayed the same, fallen or 19 risen in recent years? 2.0 Δ Yes. 21 Q. What did you conclude? 22 Well, I concluded very 23 specifically what the rates were in different 24 vears. 25 And has the rate fallen in the

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being mistreated as a result of opioid shipments, am I correct in understanding that 3 you rely on Dr. Young to identify the number of children who are subject to maltreatment in Summit County and Cuyahoga County? 6 Yes, I believe that's correct. 7 And you rely on Cutler's percentage to estimate the share of 9 maltreated children due to opioid shipments? 10 Α. That's also correct. 11 And by taking those two 12 figures, you can identify, you think, the 13 number of children whose parents mistreated 14 them as a result of opioid shipments? 15 Δ That's correct. MR. SOBOL: Objection. 16 17 THE WITNESS: That's correct. 18 QUESTIONS BY MR. KEYES: 19 For purposes of your 2.0 calculations, you assume that if parents had 21 not used opioids, they would not have 22 mistreated their children, correct? 23 MR. SOBOL: Objection.

THE WITNESS: This is a -- this

last two years in either Summit County or Cuyahoga County? I'd have to go back and check, but I have the numbers, which is what I need. Based on NIBRS, you're saying? Α. That's right. Did you --MR. SOBOL: Do you want him to look or not? MR. KEYES: No. If he has it 11 in his report, then I can look at the 12 report. 13 QUESTIONS BY MR. KEYES: 14 Did you look at any databases 15 specific to Summit County and Cuyahoga County regarding crimes such as the LERMS database? 16 17 Well. I did look at county-specific data, yes, in the form of the 18

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20 Did you look at the LERMS

21 database that is specific to Summit County or 22 Cuyahoga County?

23 No, I used the NIBRS. Α. 24 When you attempted to quantify

25 the costs that you attribute to children

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NIBRS.

19

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is a part of the David methodology, David Cutler's methodology. 3 OUESTIONS BY MR KEYES. Ο. So you again refer to Professor Cutler and what he did? I do refer to Professor Cutler Δ and what he did. This is a question he addressed 9 You say in your report that 10 based on the Perri, Kessler and Egilman 11 reports, quote, "The manufacturing defendants 12 knew or should have known that they were 13 making misleading statements about the safety and efficacy of the prescription opioids they 14 15 manufactured " 16 Α. Do you mind pointing to where 17 you're reading? 18 Q. Page 50, paragraph 90. 19 Okay. I'm there. 2.0 And you continue that, quote, 21 "Marketing by the defendants was consistent 22 in conveying the message that the risk of 23 addiction in patients taking opioids for pain 24 was minimal, the tolerance, dependence and addiction were not serious concerns, and that

Objection.

```
opioids were the safest and most effective
     treatment for chronic/long-term pain."
3
                  Do you see that?
           Α.
                  I do see that.
                  And that statement is --
                  MR. SOBOL: Misquoted.
     OHESTIONS BY MR KEYES.
                  That statement is also based on
     the Perri, Kessler and Egilman report?
                  Yes.
11
                  Okay. Which defendants engaged
           Ο.
     in this marketing with misleading statements?
13
                  MR. SOBOL: Objection. Scope.
14
                  THE WITNESS: It wasn't
15
           something that I studied.
     QUESTIONS BY MR. KEYES:
16
17
           Ο.
                  Which marketing of the
     defendants included these misleading
18
     statements?
19
2.0
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: That's also not
21
22
           something I studied.
23
     OUESTIONS BY MR. KEYES:
24
                  So you're relying entirely on
25
     what those three other experts have said when
```

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```
talking about. I see several
           statements.
                  MR. KEYES: The two statements
           T read.
                  THE WITNESS: Well, what I
           said --
                  MR. SOBOL: Well, one of them
           you misread, and the other one -- are
           you talking about the sentences or the
10
           things within the sentence? What are
11
           you talking about?
     QUESTIONS BY MR. KEYES:
12
13
                  Go ahead and answer.
14
                  Just to be sure about
15
     interpreting my answer, I interpret your
16
     question as being asking about the statements
17
     that I made in response to your questions.
18
                  If I have that wrong, please
19
     let me know.
2.0
                  You say at paragraph 90, "As
21
     explained in the expert reports of Dr. Perri,
22
     Dr. Kessler and Dr. Egilman, the
23
     manufacturing defendants knew or should have
24
     known that they were making misleading
     statements about the safety and efficacy of
```

```
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     you make these two statements?
                   MR. SOBOL: Objection.
3
                  THE WITNESS: That's not what I
           said, no.
                   If you go on in the section,
           you'll see more.
7
     QUESTIONS BY MR. KEYES:
                  Well, I asked you what your
     basis -- which defendants you were talking
     about and which marketing you were talking
11
     about, and you said, "That's also not
12
      something I studied."
13
                  I'm asking: Are you relying --
14
     when you make those statements, are you
15
     relying on what the three experts said?
                  MR. SOBOL: Objection.
16
                  THE WITNESS: Well, I'm not
17
18
           sure -- what "those statements" you're
19
           referring to.
20
     OUESTIONS BY MR KEYES.
21
                  The two statements that I just
22
     read from your report.
23
                  Okay.
24
                  MR. SOBOL: Objection. I don't
```

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25

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know which two statements you're

```
the prescription opioids they manufactured."
2
                  Then you say, "Marketing by the
3
     defendants was consistent in conveying the
     message that the risk of addiction in
     patients taking opioids for pain was minimal,
     the tolerance, dependence and addiction were
     not serious concerns, and that opioids were
     the safest and most effective treatment for
9
     chronic/long-term pain."
10
                  Those are statements in
11
     paragraph 90 by you.
                  MR. SOBOL: Objection.
12
13
           Misstatement.
     QUESTIONS BY MR. KEYES:
14
15
                  I asked you what manufacturing
16
     defendants you were talking about. You said
17
     you didn't know.
18
           Α.
                 I said I didn't study it.
19
                  Okay.
2.0
                  I asked you what specific
21
     statements were misleading, and you said you
22
     didn't study that.
23
                  MR. SOBOL: Objection.
24
                  THE WITNESS: Yes.
```

```
QUESTIONS BY MR. KEYES:
                  Then you say in the next
     paragraph that based on your own examination
     of publicly available documents and discovery
     produced in this litigation, "defendants had
     clear knowledge that the shipments had
     negative impacts on the public health and
     safety of communities across the nation,
     including in the bellwether communities."
                  Do you see that?
11
                  I do.
           Α.
                  Okay. Which defendants are you
           Ο.
13
     talking about there?
14
                  MR. SOBOL: Objection. Scope.
15
                  THE WITNESS: Well, I go on in
16
           this section to give, for example.
17
     QUESTIONS BY MR. KEYES:
18
                  Okay.
19
                  And the "for example" refers to
20
     Purdue. And then additionally in the next
21
     paragraph I talk about Mallinckrodt. And
22
     then in the next paragraph I talk about
23
     Cardinal and McKesson.
24
                  Okay. So in the sentence that
     I just read to you from paragraph 91 where
```

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```
Purdue, Mallinckrodt, Cardinal and McKesson?
2
                   MR. SOBOL: Objection.
3
                   THE WITNESS: I believe I do.
     QUESTIONS BY MR. KEYES:
4
5
                   In this section, what other
            Ο.
     evidence do you cite --
6
7
           Α.
                  In this --
                  -- as support for your
            ο.
     statement that, quote, "Defendants have clear
9
10
     knowledge that the shipments had negative
11
      impacts on the public health and safety of
12
     communities across the nation, including in
13
     the bellwether communities"?
14
                   MR. SOBOL: Objection.
15
                  THE WITNESS: I have two
16
            answers to that question.
17
                   One is in other sections of my
1.8
            report I discuss various public
19
            documents that call attention to the
2.0
            opioid crisis that are something that
21
            defendants would have knowledge of.
22
                   And then the second answer to
2.3
            the question is when a company like
24
            Purdue, who I suppose we could call an
            industry leader in opioids, has a
```

```
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     you talk about defendants having clear
     knowledge, you're talking about those four
     defendants?
                  MR. SOBOL: Objection.
           Mischaracterizes the testimony.
                   THE WITNESS: No.
     QUESTIONS BY MR. KEYES:
                  You don't cite any evidence for
     that statement other than the four examples
10
     you just listed?
11
                   MR. SOBOL: Objection.
                  THE WITNESS: Well, when you
13
            say "for example," it doesn't mean
14
            you've listed the universe of
15
           activities of something.
     QUESTIONS BY MR. KEYES:
16
17
                  In your report, do you list
18
     anything other than the four examples you
19
      just reviewed?
20
                  MR. SOBOL: Objection.
                  THE WITNESS: Examples of what?
21
```

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OUESTIONS BY MR KEYES.

22

23

24

25

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support for your statement that I read to

you, other than the four you just listed:

Do you cite any evidence as

```
public settlement of hundreds of
           millions of dollars, that's something
           that I would expect other similar
           companies would have clear knowledge
           of and understand.
     OHESTIONS BY MR KEYES.
                  What did Purdue's 2007
     settlement with the United States say about
9
     Summit County?
10
           Α.
                 I'm not sure.
11
                  What did Purdue's 2007
     settlement with the United States say about
12
13
     Cuyahoga County?
14
           Α.
                  I'm not sure.
15
                  What did that settlement say
16
     about negative impacts on the public health
17
     and safety of Summit County or Cuyahoga
18
     County?
19
                  MR. SOBOL: Objection.
2.0
                  THE WITNESS: I'm not sure.
21
     OUESTIONS BY MR. KEYES:
22
                  What did the Mallinckrodt 2017
23
     settlement with DOJ say about Summit County
24
     or Cuyahoga County?
                  MR. SOBOL: Objection.
```

```
THE WITNESS: I'm not sure.
     QUESTIONS BY MR. KEYES:
3
                  What did the Mallinckrodt 2017
     settlement with DOJ say about negative
     impacts on the public health and safety of
     Summit County or Cuyahoga County?
7
                  I'm not sure.
                  What did the Cardinal
     settlement agreement with DOJ say about
     Summit County or Cuyahoga County?
11
           A.
                 I'm not sure.
12
                  What did the Cardinal
13
     settlement agreement with DOJ say about the
14
     public health and safety of -- negative
15
     impacts on the public health and safety of
16
     Summit County or Cuyahoga County?
17
           Α.
                 I'm not sure.
18
                  What did the McKesson
     settlement agreement with DOJ say about
19
20
     Summit County or Cuyahoga County?
21
           Α.
                 I'm not sure.
22
                  What did the McKesson
23
     settlement agreement with DOJ say about
     negative impacts on the public health and
24
     safety of Summit County or Cuyahoga County?
```

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```

```
3:23 p.m., and we're on the record.
                  CROSS-EXAMINATION
3
     OHESTIONS BY MR LONERGAN.
4
           Ο.
                  Good afternoon, Professor
     McGuire. My name is Sam Lonergan. I'm with
     the law firm Arnold & Porter Kaye Scholer. I
     represent defendants Endo and Par in this
     litigation
9
           Α.
                  Good afternoon.
10
                  I'm going to do my best not to
11
     ask any of the questions that Mr. Keyes asked
12
     you, but he asked you a lot of questions over
13
     the last 12 hours or so, and I can make no
14
     quarantees.
15
                  But I do want to circle back to
16
     an issue that you all were discussing right
17
     before we just took our last break, and that
18
     is the opinions at paragraphs 90 and 91 of
19
     your nuisance report.
2.0
                  Do you recall that line of
21
     questioning?
22
                  I will when I look at the --
23
     remind myself about the paragraphs.
24
                  What did you rely on --
```

```
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                   MR. SOBOL: This is a lot of
            settlements.
                   THE WITNESS: I'm not sure.
     OUESTIONS BY MR. KEYES:
                  That's the four settlements you
     reference in your report.
                  So sitting here today, you
     don't know what any of them said about any
     public health impacts in Summit County or
     Cuyahoga County --
11
                  MR. SOBOL: Objection.
     QUESTIONS BY MR. KEYES:
13
                  -- correct?
14
                  MR. SOBOL: Objection. That's
15
           misleading -- I mean, misstates the
16
           testimony.
17
                   THE WITNESS: I'm not sure what
18
           the degree to Summit and Cuyahoga were
19
            referred to in these settlements.
2.0
                  MR. KEYES: Okay. Why don't we
21
            take a break.
22
                   VIDEOGRAPHER: The time is
```

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23

24

25

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3:09 p.m., and we're off the record.
(Off the record at 3:09 p.m.)

VIDEOGRAPHER: The time is

```
generally speaking, what information did you
     rely on in forming your opinion in
3
     paragraph 91 that defendants had clear
     knowledge that shipments had negative impacts
     on the public health and safety of
     communities across the nation, including the
     bellwether communities?
                  Well, the material that I
9
     relied on is contained in this section.
10
     Section D, which is made up of several
11
     paragraphs.
12
           Q.
                  So the material you're
13
     referring to are the four settlements that
14
     you describe in paragraphs 92 through 94?
15
           Α.
                  Well, as well as the expert
16
     reports.
17
           Ο.
                  What expert reports?
                  Dr. Perri, Dr. Kessler and
18
           Α.
19
     Dr. Egilman.
2.0
           Q.
                  Anything else?
21
                  Well, I also, I think in
22
     response to an earlier question, mentioned
23
     the -- in another section of the report
     discussion of public reports on the opioid
     crisis that would have fed into the knowledge
```

```
that someone in the business would have about
      what's happening.
3
            ο.
                   Anything else?
                   That's all I can think of.
                   And are those answers the same
     if I'm asking you about the opinion you issue
7
     in paragraph 90 of your nuisance report where
     you say the manufacturing defendants knew or
     should have known that they were making
     misleading statements about the safety and
11
     efficacy of the prescription opioids they
12
     manufacture?
13
           A.
                  Yes, it would.
14
            Ο.
                   You didn't rely on any other
15
     information for that opinion?
16
                  MR. SOBOL: Objection.
17
                   THE WITNESS: Well, I noted
18
            this section and then made reference
19
            to the public reports, you know.
20
     QUESTIONS BY MR. LONERGAN:
21
                  Did you rely on any firsthand
22
     information that you have in forming either
23
     of those opinions?
24
            Α.
                  No, I would say not.
25
                 Do you believe a juror could
```

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```
need to be an economist. And you probably
     don't need to be an economist to say that.
3
     for example, in the case of Purdue, when
     there's a multi-hundred million dollar
     settlement that acknowledged misleading
     advertising, that that would reasonably have
     been known by other industry participants.
           Ο
                  Are vou done?
9
           Δ
                  Yeah.
                  So is what you're saying that
10
11
     if somebody can read the same materials that
12
     you read, that you think they could come to
13
     the same conclusions without any additional
14
     economic expertise that you may have? Is
15
     that correct?
16
                  MR. SOBOL: Objection.
17
                  THE WITNESS: No, that's not
18
            what I said.
19
     QUESTIONS BY MR. LONERGAN:
2.0
                  What's wrong about what I said?
21
                  MR. SOBOL: Objection.
22
                  He didn't say it was wrong.
2.3
                  THE WITNESS: Well, I mean, I
24
            would ask somewhat different questions
```

```
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      reach the same opinions as you've reached in
     paragraph 90 and 91 of your nuisance report
      if they reviewed the same materials that you
      reviewed?
                   MR. SOBOL: Objection. Scope.
                   THE WITNESS: I'm not sure.
7
     QUESTIONS BY MR. LONERGAN:
                  Do you have any reason to
     believe that a juror could not reach those
10
     opinions reviewing those same materials?
11
                  MR. SOBOL: Objection. Scope.
12
                   THE WITNESS: I really don't
13
           know one way or the other.
14
     QUESTIONS BY MR. LONERGAN:
15
                  What expertise did you apply in
16
     reaching those opinions?
17
                  Primarily it's relying on the
18
     very explicit statements of experts who are
19
     medical experts with respect to the
20
     manufacture and marketing of opioids. So
21
     it's, you know, directly from people who know
     about this that I drew my conclusions.
22
23
                  And then I think the -- with
```

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24

25

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respect to the other material referenced in

this section, it's -- I don't know if you

```
sure what you're asking me to say,
           actually.
3
     QUESTIONS BY MR. LONERGAN:
4
                 Let's back up.
                  The guestion I want an answer
     to is what expertise did you apply in
     reaching the opinions in paragraphs 90 and 91
     of your nuisance report?
9
                  Okay. And I believe I answered
10
     that I relied on the expertise of the three
11
     named medical experts here.
12
           Q.
                  Meaning you read their reports,
13
     right?
14
           Α.
                  Well, I read their reports and
15
     understood what their conclusions would be.
16
           Ο.
                  Okay.
17
                  And then also made reference to
18
     two things: the studies discussed earlier in
19
     my report, and these prominent legal
2.0
     decisions that would have been known to
21
     members of the industry.
22
                  They're all materials you
23
     reviewed, right?
24
                  At what point did the
```

when I tried to answer them. I'm not

```
manufacturer defendants become aware that
     their marketing for opioids was misleading?
3
                  MR. SOBOL: Objection. Hold on
           one second.
                  It's been brought to my
           attention that there's apparently some
           limitation about follow-up questions,
           that they need to be specific to a
           manufacturer.
                  Do I have that wrong?
                  MR. HALLER: That's wrong.
                  MR. LONERGAN: Why don't we go
           off the record. I don't want to waste
14
           time with this.
15
                  VIDEOGRAPHER: The time is
           3:29 p.m., and we're off the record.
17
            (Off the record at 3:29 p.m.)
18
                  VIDEOGRAPHER: The time is
19
           3:33, and we're on the record.
20
     OHESTIONS BY MR LONERGAN.
21
                  Sir, at what point did the
22
     manufacturer defendants become aware that
23
     their marketing was misleading?
24
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I'm not sure.
25
```

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```
I \operatorname{--} it was within the time period of
            this report, of my work on this
3
            report.
     QUESTIONS BY MR. LONERGAN:
                   You mean since you started
     working on this report in May of 2018?
            Α.
7
                   Yes.
            Ο
                   You were the editor of the
     Journal of Health Economics from 2001 to
     2011, right?
10
11
           Α.
                  That's correct.
12
                   And during the period -- during
13
     that period of time, is it correct that the
14
     Journal of Health Economics published a
15
     number of articles concerning prescription
16
     opioids?
17
            Α.
                   Probably correct, yes.
18
                   And as the editor of that
19
     journal, did you familiarize yourself at that
2.0
     time with those publications?
21
                   No, not necessarily. There
22
     were numerous editors during that time
23
     period, at least three, and the way the
24
     editorial process worked was there was a kind
     of delegation of different articles to
```

```
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```

```
QUESTIONS BY MR. LONERGAN:
                  Is it the same date for each
     defendant?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I'm not sure.
     OUESTIONS BY MR. LONERGAN:
7
                  Is it your opinion that each
     marketing manufacturer -- each manufacturer
     defendant was aware of what the other
     defendants were aware of?
11
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I'm not sure.
13
     QUESTIONS BY MR. LONERGAN:
14
           Ο.
                  At what point did my client,
15
     Endo, become aware that its marketing was
16
     misleading?
17
                  MR. SOBOL: Objection. Scope.
18
                  THE WITNESS: I'm not sure.
     OUESTIONS BY MR. LONERGAN:
19
20
                  When did you become aware of
21
     the fact that the manufacturer defendants'
22
     marketing for prescription opioids was
23
     misleading?
24
                  MR. SOBOL: Objection. Scope.
25
                  THE WITNESS: I would say when
```

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```
different editors.
                  And the assigned editor would
3
     have been, you know, paying careful attention
     to the paper at issue, but the editors who
     were editors that were not assigned would not
     necessarily have paid close attention.
                  From 2001 to 2011, were you
     ever an editor assigned to an article
9
     concerning prescription opioids?
10
                  You know. I don't remember.
11
                  You're no longer affiliated
12
     with the Journal of Health Economics?
13
                  I may be an associate editor.
14
     I'm a subscriber.
15
           Ο.
                  You consider it to be a
16
     reputable journal?
17
                  I do, yes.
18
           Q.
                  Trustworthy?
19
2.0
                  And so the information that it
21
     publishes you would expect to be accurate,
22
     correct?
23
                  Well, there's a process by
24
     which authors submit; it's reviewed by
     reviewers; editors help make a determination.
```

```
So the editorial staff does its best to make
     sure that the papers are accurate and
     reliable, which is not to say that there
     aren't sometimes things that are incorrect in
     the papers.
                  For the most part, your
     expectation is that articles published in the
     Journal of Health Economics are accurate,
     correct?
                  MR. SOBOL: Objection.
11
                  THE WITNESS: Well, subject to
           my previous answer that -- I'm not
           sure what "for the most part is," but
14
           the editorial staff does its best to
15
           make sure things are accurate.
16
     QUESTIONS BY MR. LONERGAN:
17
                  Well, "for the most part" was
18
     really me responding to you, and you're
     waffling a little.
19
20
                  I guess what percentage of
21
     articles published by the Journal of Health
22
     Economics do you think are accurate?
23
                  MR. SOBOL: Objection to the
24
           statement.
25
                  But you can answer the
```

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```
the 1960s concerning the risks of addiction
     associated with prescription opioids?
3
                   MR. SOBOL: Objection.
                   THE WITNESS: There may well
4
           be. You know, I couldn't name -- name
            them for you.
     QUESTIONS BY MR. LONERGAN:
7
                  It's not something you
9
     familiarized yourself with for purposes of
10
     your work on this case, correct?
11
                  No, this is -- that's something
12
     I relied on medical experts for.
13
                   When did the defendants become
     aware of the fact that the shipments was
14
15
     having a negative impact on public health and
16
     safety?
17
           Α.
                  I'm not sure.
18
            Ο.
                  Is it the same for each
19
     defendant?
2.0
                   In the sense that, yes -- yes,
21
     I would not be sure for each defendant when
22
     they became aware.
                   So you don't know when my
23
24
     client, Endo, became aware that its shipments
     of prescription opioids was having a, in your
```

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```

```
question.
                   THE WITNESS: It's an odd
            question. I know, I'll answer it
            anyway.
                  It's not so much that articles
            are accurate or inaccurate, but
            sometimes statements within articles
            are accurate or inaccurate.
                  I'm sure all articles have some
            accurate stuff and, you know, some
11
            articles have some inaccurate stuff.
12
            It's really impossible for me to put a
13
           percentage on.
14
     QUESTIONS BY MR. LONERGAN:
15
                  Do you agree that there's been
     a significant number of articles concerning
16
17
     opioid addiction that have been published in
18
     any journal dating back to the 1960s?
19
           Α.
                  In any journal?
20
                  Yeah
           Ω
21
           Α.
                  I'm sure there have been
22
     research papers on it. I'm not sure what you
23
     mean by "significant" in this context, but...
24
                  Well, do you agree that there
25
     have been articles published dating back to
```

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```
term, negative impact on the public health
     and safety, correct?
3
                  MR. SOBOL: Objection.
                  THE WITNESS: I'm not aware
           when Endo would have become aware of
           that
     QUESTIONS BY MR. LONERGAN:
                  In reaching the opinions set
9
     forth in paragraphs 90 and 91 of your
10
     nuisance report, did you make any assessment
11
     of what other non-defendant participants in
12
     the prescription drug market knew concerning
13
     misleading marketing of prescription opioids?
14
           Α.
15
           ο.
                  Did you make an assessment of
16
     what other non-defendant participants in the
17
     opioid prescription drug market knew
18
     concerning the negative impacts on public
19
     health and safety?
2.0
                  It was the same. I didn't
21
     investigate what non-defendants would have
22
     known or not known.
23
                 You didn't make an assessment
24
     of what the FDA knew about those things and
25
```

```
MR. SOBOL: Objection. Scope.
                  THE WITNESS: I'm not privy to
           what the FDA knew and when.
     OUESTIONS BY MR. LONERGAN:
                  You didn't make an assessment
     of what PBMs knew about those things and
           Α.
                  It would be the same.
                  You didn't make an assessment
     of what prescription opioid patients knew
11
     about those things and when?
12
                  MR. SOBOL: Objection.
13
     QUESTIONS BY MR. LONERGAN:
14
           Ο.
                  Correct?
15
           Α.
                  These are things I didn't
     study.
16
17
           Ο.
                  You didn't make an assessment
18
     of when prescribing physicians became aware
19
     of the risks associated with prescription
20
     opioids and when, correct?
21
                  MR. SOBOL: Objection.
22
                  THE WITNESS: Well, that's also
23
           something I didn't study.
     QUESTIONS BY MR. LONERGAN:
24
25
                 Did you study when Summit
```

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# $\hbox{\tt Highly Confidential - Subject to Further Confidentiality Review}\\$

```
OUESTIONS BY MR. LONERGAN:
                  Did you study when Summit or
3
     Cuyahoga County became aware of the negative
     impacts that prescription opioids were having
     on the public health and safety?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I also did not
7
           study that
9
     OUESTIONS BY MR. LONERGAN:
10
                  Is it correct that you do not
11
     know when Summit or Cuyahoga County became
12
     aware of the negative impacts on public
13
     health and safety?
14
                  MR. SOBOL: Objection. Scope.
15
                  THE WITNESS: I didn't study
16
           that.
17
     QUESTIONS BY MR. LONERGAN:
18
                  Do you have any reason to
19
     disagree with the follow statements: Medical
2.0
     professionals have known for a long time that
21
     opioids are addictive?
22
                  MR. SOBOL: Objection. Scope.
23
                  THE WITNESS: I -- no, I have
24
           no reason to agree or disagree.
```

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```

```
County became aware of misleading marketing
     concerning prescription opioids?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: No, I didn't
           study that.
     QUESTIONS BY MR. LONERGAN:
           Ο.
                  Do you have an opinion on when
     that was?
                  MR. SOBOL: Objection. Scope.
10
                  THE WITNESS: I didn't study
11
           it.
12
     QUESTIONS BY MR. LONERGAN:
13
           Ο.
                  Did you study when Cuyahoga
14
     County became aware of prescription opioid
15
     misleading marketing?
                  MR. SOBOL: Objection. Scope.
16
                  THE WITNESS: I didn't study
17
18
           that.
     OUESTIONS BY MR. LONERGAN:
19
20
                  Do you have an opinion on when
21
     Cuyahoga County became aware of the
22
     misleading marketing?
23
                  MR. SOBOL: Objection. Scope.
24
                  THE WITNESS: I didn't study
25
           that
```

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```
OUESTIONS BY MR. LONERGAN:
                  Sir, yesterday you were asked a
3
     couple of questions about -- I'm sorry, last
     week you were asked --
                  That's what I thought you
           Α.
     meant
           Ο.
                  I don't know where you were
     vesterday.
9
                  MR. SOBOL: He said last month.
                  MR. LONERGAN: Strike
10
11
           everything I just said, and him.
12
                  MR. SOBOL: Certainly mine.
13
     QUESTIONS BY MR. LONERGAN:
14
                  Last week you were asked a few
15
     questions about prior consulting work that
16
     you've done for manufacturers, I think,
17
     manufacturers and maybe wholesalers.
18
                  I've only had a chance to
19
     review the rough transcript of that
2.0
     deposition, and it's a little fuzzy. No
21
     offense.
22
                  It was somebody else. She
23
     wasn't here.
24
                  So you can object as asked and
     answered, but I'm going to circle back.
```

Have you ever consulted for a pharmaceutical manufacturer? 3 Α. ο. What manufacturer? Α. There were a couple of one-day consultancies that I engaged in some time ago. One of them I remember was at Johns Hopkins. It had to do with schizophrenia drugs, but I don't remember the manufacturer involved for that. 11 The other was I think in Chicago, and it was convened by someone 13 interested in using claims-like data for 14 marketing purposes to assess potential sales 15 of a drug by -- I don't remember the drug and 16 I don't remember the manufacturer. It was 17 about the methodology that one could use with 18 respect to that. 19 Ο. And do vou recall how vou 20 advised that nameless manufacturer about how 21 claims data could be used to conduct analyses 22 concerning sales? 23 Α. I don't remember. 24 And do you recall what you were 25 brought in to consult on concerning the

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my main line of work -- or one of my main lines of work is health insurance, health 3 plan payment, health insurance payment design. So I think you wouldn't want to go through my CV and hear all these. MR. SOBOL: I would. 6 QUESTIONS BY MR. LONERGAN: 7 In general terms, when you're 9 advising an insurer concerning their health 10 insurance payment design, what types of 11 things are you advising them on? It would be within the realm of 12 13 the parameters that they set in their coverage. You know, something very simple 14 15 and straightforward would be the degree of 16 coverage for mental health and substance 17 abuse treatment. I might advise them on what 18 the cost implications would be of doing so. 19 Do you ever provide them with 2.0 advice concerning the clinical implications? 21 Well, in the sense that 22 coverage for something like mental health 23 care has implications not just for cost but

schizophrenia drug? Sorry, I don't remember. What about pharmacies? Have you ever consulted for a pharmacy? No, I have not. Α. Ο. Have you ever consulted for a wholesaler? Wholesalers may have been in a class in something I was involved in, but never directly with a wholesaler. 11 You mean they may have been in a class of plaintiffs --13 A. Yes. 14 Ο. -- in a litigation you were 15 consulting on? 16 Α.

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- A. No. I haven't.
- Q. Have you ever consulted for an

context, have you ever consulted for a

Outside of the litigation

22 insurer?

17

18

19

2.0

23 A. Yes.

wholesaler?

Ο.

- Q. What insurer?
- 25 A. Well, many. Many. You know,

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about, something that I study, and I get asked about that and I give my opinion on 3 that Have you ever advised an insurer concerning their coverage of prescription opioids? No, I don't think I have. Ο. Have you ever consulted for a 9 pharmacy benefits manager? 10 Α. No. I never have. 11 Ο. You're familiar with what a 12 pharmacy benefits manager is? 13 Α. Yes. 14 What is a pharmacy benefits 15 manager? 16 It would be a specialized firm 17 that takes responsibility for managing a 18 pharmacy benefit. 19 So what benefit means in this 2.0 context as part of a health insurance 21 benefit, that there might be a, you know, 22 single large insurer that has responsibility 23 for the overall picture but then writes 24 contracts with specialized firms, of which a

PBM, or a pharmacy benefit manager, is one,

also for the health and mental health of the

enrollees. And this is something that I know

```
but there are other types of these
     specialized firms, and either on a cost or a
     risk basis or some kind of combination of a
     cost and a risk basis, makes a contract with
                  And then the PBM has the
7
     responsibility for helping the client select
     the drugs on the -- to be offered in the
     formulary, would have responsibility to share
     with a client of the tiering and the cost
11
     responsibility of the enrollees, and would be
     responsible for doing negotiation with
13
     manufacturers around procurement of the drugs
14
     for the client, as well as conducting some
15
     utilization management activities that might
     influence actual drug utilization.
16
17
           Ο.
                  And a PBM's customers, are
18
     those insurers, either insurance companies or
     self-insured entities?
19
2.0
                  That would be generally
           Δ
21
     accurate, yes.
22
           Ο
                  Okay. And what is a
23
     self-insured employer?
24
                  Self-insured refers to the --
25
     the practice of an employer who in simple
```

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```
Ο.
                  Would that be the norm?
                  MR. SOBOL: Objection.
                  THE WITNESS: Well, if you --
           you may not even choose to use a PBM,
           for example. You may self-administer
           your benefit, which a number of
           insurers do.
                  So PRMs are number one.
           optional. And then the nature of the
10
           PBM contract and what your -- what you
11
           decide about as an employer or an
12
           insurer can vary by PBM and it can
13
           vary by contract within the PBM. So
14
           it's hard to generalize.
15
     QUESTIONS BY MR. LONERGAN:
16
                  Do you have a sense of
17
     approximately how many people in the United
18
     States today receive their pharmacy benefits
19
     through a PBM?
2.0
           Α.
                  A very large number.
21
                  Do you have a sense of what
22
     percentage of the country it is?
23
                  Percentage of the country? Oh,
24
     I don't know. Of the number of people in the
     country, maybe 70 percent or 80 percent.
```

```
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      terms pays claims directly. Now that's kind
     of a simplification.
3
                  They may contract with a
     third-party administrator to actually receive
     the bills, maybe help negotiate the prices
     for the services, maybe even decide the
     network of different providers that would be
     available to a firm's employees.
                  So the TPA would be responsible
10
     for some part of the -- you know, in a
11
     broader sense the design of the benefit.
12
                  But then the cost risk
13
     associated with that, when you say
14
     self-insurance, that falls on the employer.
15
                  One more quick sentence about
16
     this. It's not always a black and white
17
     world in which all the risk is with the
     insurer, all the risk is with the employer.
18
     It's often a shared risk situation.
19
2.0
                  And a self-insured employer
21
     and/or an insurance company, is it correct
22
     that they rely on a PBM to administer the
23
     pharmacy benefits for their covered lives?
```

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24

25

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a PBM, yes. It wouldn't be entirely.

Well, they'll partially rely on

```
Ο.
                  Would you consider that
     significant?
3
                  MR. SOBOL: Objection.
                  THE WITNESS: That's a pretty
           big number, yeah. That's why we pay
           attention to these in my work.
     OUESTIONS BY MR. LONERGAN:
                  I know we had the back and
9
     forth on what significant meant before. I'm
10
     just wondering if that's significant.
11
                  Yeah, that meets my criteria.
12
                  Have you had the opportunity to
13
     examine Summit County and Cuyahoga
     County's --
14
15
                  This has nothing to do with
16
     you. Sorry. There was just something in my
17
     water. We're going to put this right over
18
     here
19
                  MR. SOBOL: I think it's
2.0
           swimming the backstroke.
21
                  THE WITNESS: Sorry.
22
                  MR. LONERGAN: It's quite all
23
           right.
24
     QUESTIONS BY MR. LONERGAN:
                  Have you had a chance to review
```

```
how Summit County and Cuyahoga County's
     insurance plans work for their covered county
     employees?
3
                   Yes, generally.
            Ο.
                   And do they both rely on the
     services of a PBM?
                   You know, I don't know that I
     examined that aspect of it.
           ο.
                   What aspect of it did you
      examine?
11
                   I was -- first of all, my
           Α.
     understanding is there's more than one
13
     involved in each of the counties, more than
14
     one insurer involved, depending -- and they
15
     cover different --
16
           Q.
                   Presently or historically?
17
            Α.
                  Certainly historically, and
18
     there could have even been some years where
19
     there was more than one active in any one
20
     vear.
21
                   I was more interested when I
22
     looked at this stuff in the self-insured
23
     versus risk-based contracting.
                  And what did you find?
24
            Ο.
25
            Δ
                  It's a mix.
```

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```
wouldn't surprise me.
     QUESTIONS BY MR. LONERGAN:
3
                   Are you familiar with the term
4
      "pharmacy and therapeutics committee"?
            Α.
                   Yes, I am.
                   Otherwise known as a P & T
            Ω
     committee?
           Δ
                   Yes
9
                   What is a P & T committee?
10
                   A P & T would be a committee
11
     that's part of either a PBM or perhaps an
12
     insurer that makes recommendations regarding
13
     the formulary coverage of alternative drug
14
     products.
15
           Ο.
                  Have you ever served on a P & T
16
     committee?
17
            Α.
                   No, I never have.
18
                   Do you know what types of
19
     professionals typically serve on a P & T
2.0
     committee?
21
            Α.
                   Generally, yes.
22
                   What types of professionals?
2.3
                   There would be physicians, of
24
     course, of different types. There would be
     pharmacists.
```

Highly Confidential - Subject to Further Confidentiality Review What do you mean by that? What do you mean by that? I mean there are some of both, and even within contracts that are labeled self-insured, there's some risk, sure. Did you have an opportunity to review any of the counties' contracts that they've entered into with PBMs? I don't recall. I don't think 11 so. 12 Would it surprise you to learn 13 that those contracts gave the counties the 14 ultimate right to make determinations 15 concerning the formulary for the covered patients? 16 17 MR. SOBOL: Objection. THE WITNESS: Yeah, as I said 18 19 when we were discussing this more 2.0 generally, the division of labor 21 between what a PBM decides and what an 22 employer, in this case the county 23 government, decides is not fixed in stone, and it varies across different 24

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25

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contractual arrangements. So, no, it

```
Ο.
                  How about medical ethicists?
                  Medical ethicists? There may
           Α.
     well be. Some probably have, and some
     probably don't.
                  I think you already said this,
     but in your experience both PBMs and insurers
     typically have P & T committees; is that
     correct?
9
           Δ
                  That's what I said, yes.
10
                  And what types of information
11
     do P \& T committees typically rely on when
12
     evaluating a drug or a class of drugs?
13
                  They are -- typically evaluate
14
     evidence that they find in their research
15
     literature on -- mostly on effectiveness.
16
                  So they review medical
17
     literature; is that correct?
18
                  That's correct.
19
                  Do they review FDA-approved
2.0
     product labels?
21
                  Yes, I think they do.
22
                  Do they, in your experience,
23
     review proprietary data concerning their
24
     customers' use of products?
```

MR. SOBOL: Objection.

```
THE WITNESS: You see, in my
           experience, I didn't mean to imply a
           personal experience with a P & T
                  My knowledge about this comes
           from my work on health plans and my
           knowledge about that.
                  And then do they what? I'm
           sorrv.
     QUESTIONS BY MR. LONERGAN:
11
                  Rely on their proprietary
     data --
13
           Α.
                  Proprietary data?
14
                  -- concerning their customers'
15
     use of pharmaceuticals.
                  MR. SOBOL: Objection.
16
17
                  THE WITNESS: I'm not sure.
     QUESTIONS BY MR. LONERGAN:
18
19
           Ο.
                  Okay. How about clinical
20
     guidelines? Do P & T committees rely on
21
     clinical guidelines in making assessments of
22
     pharmaceuticals or classes of
23
     pharmaceuticals?
                  Clinical guidelines, published
24
25
     clinical guidelines, would be part of the
```

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```
in all tiers, and formularies may well have
     more than one -- many have more than three
3
     tiers, some of them have one tier. So
     there's a range of arrangements.
                  And in your work consulting for
     health insurance companies, have you worked
     with them to devise strategies concerning
     formularies?
9
           Α.
                 I'm just thinking. No, I don't
10
     think T have.
11
                  Okay. In your experience, do
     PBMs and insurers typically employ
12
13
     formularies for the customers they're
14
     serving?
15
           Δ
                  Yes.
16
                  Have you had the opportunity to
17
     review or examine the role that formularies
18
     may have played in connection with the use of
19
     prescription opioids?
2.0
                  MR. SOBOL: Objection.
21
                  THE WITNESS: Well, not beyond
22
           my general understanding of how
23
           formularies work.
24
     QUESTIONS BY MR. LONERGAN:
                  Okay. In your experience, are
```

```
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      research literature.
                  What is a formulary?
                  A formulary is a listing of
     pharmaceutical products that are eligible for
      some coverage in a particular health
     insurance plan.
7
                   It typically would have, say,
     three tiers, in which tier 1 is typically
     generic tier, and that's where the copayment
     obligations of the enrollees are the least.
11
     You know, just, for example, it might be $10
     would be the co-pay on tier 1.
13
                  Tier 2 would be typically
14
     the -- what would be called preferred brand
15
     drugs for which there would be some coverage,
     but the coverage would be not -- would
16
17
     require more than a $10 co-pay. Maybe, say,
     a $25 co-pay.
18
19
                   And then a third tier would be
20
     typically referred to as nonpreferred brand
21
     drugs. These would have some coverage but
22
     even higher rates of co-pay.
23
                  And there may be some products
```

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24

25

```
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```

drug formularies an effective means of

that aren't even on the formulary. So it's

not -- you know, all drugs aren't classified

```
influencing patient behavior concerning
     selection of prescription pharmaceuticals?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: It's not
           something I studied here.
     QUESTIONS BY MR. LONERGAN:
           Ο
                  So vou don't know?
9
           Α.
                  Well, it's not something I
10
     studied.
11
                  MR. SOBOL: Objection. Scope.
12
     OUESTIONS BY MR. LONERGAN:
13
                  No, I understand, but -- and
     I'm not asking if you studied it here. I'm
14
15
     asking you, in your experience and given that
16
     you're a health care economist, are drug
17
     formularies an effective means of influencing
18
     patient behavior with respect to the
19
     selection of prescription pharmaceuticals?
2.0
                  MR. SOBOL: Objection. Scope.
21
                  THE WITNESS: Well, it's part
22
           of the intention of formularies to
23
           influence not just patients but to
24
           influence doctors in what they
           recommend. And, yes, formularies can
```

```
affect selection of drugs.
     QUESTIONS BY MR. LONERGAN:
3
                  And given that you haven't
     examined the role of formularies with respect
     to prescription opioids, you have no basis
     upon which to opine that that was not the
     case with respect to prescription opioids,
     correct?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: There's a couple
11
           of negatives in there. I'm sorry. If
           you don't mind, you can ask it again.
           I'll get it the second time.
14
                  MR. LONERGAN: I'll do my best.
15
     OUESTIONS BY MR. LONERGAN:
16
                  Given that you haven't examined
17
     the role of formularies with respect to
18
     prescription opioids, you have no basis upon
19
     which to opine that formularies were not
20
     effective in influencing the behavior of
21
     patients with respect to prescription
     opioids, correct?
22
23
                  MR. SOBOL: Objection. Scope.
24
                  THE WITNESS: That's something
25
           I didn't study.
```

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```
Is a quantity limit, in your
     mind, a utilization management tool?
3
                  That would be an example of a
     utilization management tool.
                  And what is a quantity limit?
                  It would be a -- you know, kind
     of rule that a PBM might administer to say
     that there's a maximum number of, say, pills
     that would be covered under the formulary.
10
                  And in your experience, are
11
     quantity limits typically effective at
12
     influencing patient behavior with respect to
13
     prescription drugs generally?
14
           Α.
                  I've never explicitly studied
15
     quantity limits.
16
                  Okay. How about step therapy?
17
     Is that a utilization management tool?
18
           Δ
                  Yes, it is.
19
           Q.
                  What is step therapy?
2.0
                  Step therapy refers to another
21
     kind of protocol that a PBM would implement
22
     that says step 1 might be where a patient
23
     with a certain health condition is required
24
     to start in terms of treatment.
```

And then to get step 2 to go in

```
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      QUESTIONS BY MR. LONERGAN:
```

```
Α.
                  However, the negative or
     positives work out there.
                  So you have no basis upon which
     to have an opinion one way or the other on
     the influence of formularies on the use of
     prescription opioids, right?
                  MR. SOBOL: Objection. Scope.
10
                  THE WITNESS: I didn't study
11
           that.
12
     QUESTIONS BY MR. LONERGAN:
13
                  Okay. Outside of formularies,
14
     PBMs and insurers also employ utilization
15
     management tools to influence patient
16
     behavior, correct?
17
           Α.
                  That's correct.
18
                  MR. SOBOL: Objection. Scope.
19
                  THE WITNESS: I think I
2.0
           mentioned that earlier.
21
     QUESTIONS BY MR. LONERGAN:
22
                 I think you did.
23
                  I just want to be a little more
24
     specific about what a utilization management
25
     tool is
```

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```
an alternative, there would be some
     conditions under which a patient could move
3
     from step 1 to step 2.
                  Have you studied the
           Ο.
     effectiveness of step therapy protocols in
     influencing patient behavior?
                  No, I haven't.
                  What about prior authorization,
           Ο
9
     is that a utilization management tool?
10
           Α.
                  Yes, it is.
11
           Ο.
                  And what is prior
12
     authorization?
13
                  Prior authorization refers to
     another protocol that a PBM or insurer might
14
15
     use to require that before a service is
16
     delivered to a patient, which could be some
17
     kind of physician procedure or a
18
     hospitalization or, in this case,
19
     pharmaceuticals, a call needs to be made to
2.0
     someone from the insurer, from the PBM, to
21
     authorize the coverage for that service or
22
     product.
23
                 Earlier today I think you
24
     testified that PBMs won't know why a patient
     is receiving a prescription opioid because
```

```
they don't receive the diagnosis; is that
           Α.
                  That's -- generally, that's
     correct.
                  If prior authorization were
     required for the distribution or dispensation
     of a prescription opioid, you'd agree in that
     instance a PBM or an insurer would be
     well-aware of the diagnosis code, correct?
                  Well, I think that's, you know,
11
     a different mechanism than getting a claim.
12
     And if you ask me in general terms what
13
     happens during prior authorization, someone
14
     familiar with the medical condition of the
15
     patient would make a call and explain the
     reasons why this product were needed, and it
16
17
     would include a description of the health --
18
     you know, what is the basis of the health
     needs of the patient.
19
20
                  Do you know the extent to which
21
     any of these utilization management tools,
22
     quantity limits, step therapy or prior
23
     authorization, were employed historically in
24
     connection with the prescription opioids?
25
                  MR. SOBOL: Objection. Scope.
```

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```
insurers in connection with the distribution
     of prescription drugs?
3
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, in some
4
5
           ways I'm generally familiar.
     QUESTIONS BY MR. LONERGAN:
6
7
                  But you're not an expert in
     terms of what information gets transferred
     back and forth; is that correct? Or what
     protocol is used for that?
10
11
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, I think it
12
13
           depends on what you ask specifically
14
           whether I'm likely to know it or not.
15
     QUESTIONS BY MR. LONERGAN:
16
                  Okay. So in a hypothetical,
17
     let's say your lawyer goes to the pharmacy to
18
     pick up a prescription drug, what information
19
     does that pharmacy communicate to his insurer
2.0
     and the PBM, and on what protocol is it used
21
     to do that?
22
                  MR. SOBOL: Objection.
23
           Compound. Scope.
                  THE WITNESS: I will probably
24
           just get this partially right, which
```

```
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```

```
Go ahead.
                   THE WITNESS: I didn't study
           that.
     OUESTIONS BY MR. LONERGAN:
                  So you don't know?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I didn't study
           it.
     OUESTIONS BY MR. LONERGAN:
                  Do you have any reason to
11
     believe that these utilization management
     tools were not available to be employed by
13
     PBMs or insurers with respect to prescription
14
     opioids?
15
                  MR. SOBOL: Objection. Scope.
16
                  THE WITNESS: I don't really
17
           have any reason to believe one way or
18
           the other.
19
     OUESTIONS BY MR. LONERGAN:
20
                  Are you familiar with the NCPDP
21
     protocol? NCPDP standing for National
22
     Council of Prescription Drug Programs.
23
                  I'm not familiar with that.
24
                  Okay. Are you familiar with
25
     how pharmacies communicate with PBMs and
```

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```
is --
      OUESTIONS BY MR. LONERGAN:
 3
                   Okay. He will tell you not to
            Ο
      quess, but...
                   The pharmacy would communicate
      electronically with the PBM or the health
      insurer about the -- who is being --
      requested the prescription on behalf of whom,
      that is, what patient, possibly the doctor,
10
      and what the prescription -- what the
11
      prescription is.
12
            Q.
                   Is any other information
13
      transferred at that time?
14
                   There may be.
15
            ο.
                   You don't know?
16
                   That's -- I told you what I
            Α.
17
      know.
18
                   Okay. And you don't know what
19
      protocol is used for that communication,
2.0
      correct?
21
                   I'm sorry, by "protocol" you
22
      mean electronic something or the other?
23
                   You've already testified you
24
      don't know what the NCPDP protocol is, so I
      probably don't need to ask that question.
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```

```
All right.
                  At paragraph 23 of your public
     nuisance report, you refer to scientifically
     acceptable clinical criteria with respect to
     prescription opioids.
                  Do you see that?
                  Yes
                  What are the scientifically
     acceptable clinical criteria you're referring
     to in that paragraph?
11
                  This is a little more general.
           Α.
     It says "like prescription opioids," but the
13
     scientifically acceptable clinical criteria
14
     would be -- you know, medical justification
     would be another way to -- medically justify
15
     would be another way to say it.
16
17
           Ο.
                  Fair.
18
                  But my question is a little
     more specific.
19
20
                   Is there a specific criteria
21
     you believe is the scientifically acceptable
22
     criteria for the use of prescription opioids?
23
           Δ
                  Well, this is what doctors know
24
     about --
25
                 IIh - huh
           Ω
```

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```
analysis concerning the quality of life
2
     attributes of prescription opioids.
3
                  Correct?
                  Well, I wouldn't quite call it
     that, but I do do an analysis of quality of
     life
6
7
           Ο.
                  What would you call it?
                  I would call it an economic
           Δ
9
     assessment of the pluses and minuses of the
10
     effect of opioid shipments on quality of
11
12
           Q.
                  And in doing that, you had to
13
     identify the instances where you believed
14
     that the use of prescription opioids was
15
     scientifically acceptable, correct?
           Α.
16
                  That's right.
17
                  Do you agree that chronic pain
     is a serious mental, medical condition?
18
19
                  I'm sure it is.
2.0
                  Do you agree that chronic pain
21
     affects millions of people in the United
22
     States?
23
                  MR. SOBOL: Objection. Scope.
24
                  THE WITNESS: I see that in
            things I read.
```

```
Highly Confidential - Subject to Further Confidentiality Review
                   -- what are the medically
      appropriate treatments based on science, and
     the science comes from research studies.
                  What have you done to
     understand the scientifically acceptable
     clinical criteria for the use of prescription
     opioids?
           Α.
                   I've -- for this I rely on the
     medical expert reports that I mentioned
     earlier: Schumacher, Parran, Egilman.
11
                  Anything else?
           Α.
                  I've read things, researched
13
     literature.
14
                  Is all of the research
           Ο.
15
     literature that you've read in connection
16
     with this cited or noted in your expert --
     one of your -- either of your expert reports?
17
18
                  The ones I relied on, yes.
19
           Ο.
                  Okay. Anything else?
2.0
                  MR. SOBOL: Objection.
                   THE WITNESS: Not that I can
21
22
           think of
```

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QUESTIONS BY MR. LONERGAN:

23

24

25

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You also in your public

nuisance report conduct a cost/benefit

```
OUESTIONS BY MR. LONERGAN:
                  Do you agree that chronic pain
3
     affects residents of Summit County, Ohio?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, I didn't
           study that, but I'm sure that's true.
     QUESTIONS BY MR. LONERGAN:
                  Do you agree that chronic pain
     affects residents of Cuyahoga County, Ohio?
9
                  MR. SOBOL: Objection. Scope.
10
11
                  THE WITNESS: That's, again,
12
           something I didn't study, but I'd be
13
           surprised if it weren't true.
     QUESTIONS BY MR. LONERGAN:
14
15
                  Do you agree that there are
16
     risks associated with untreated chronic pain?
17
                  MR. SOBOL: Objection. Scope.
18
                  THE WITNESS: I really don't
19
           know.
2.0
     QUESTIONS BY MR. LONERGAN:
21
                  So you don't know?
22
                  I don't know.
23
                  It's not something you took
24
     into account doing your cost/benefit
     analvsis?
```

```
I didn't think I needed to.
                  Do you agree that every --
                  Excuse me. By the way, I
     wouldn't call it a cost/benefit analysis. I
     know what you're referring to.
                  What's the term? I'll use your
     term. I just don't remember what you said.
                  It's an economic assessment of
     the effect of shipments on quality of life.
     You can call it --
11
           Ο.
                  Can we agree to call it a
12
     cost/benefit analysis --
13
                  MR. SOBOL: Objection.
14
     QUESTIONS BY MR. LONERGAN:
15
           Ο.
                  -- for short?
16
                  MR. SOBOL: Objection.
17
                  THE WITNESS: It kind of
18
           bothers me to use the wrong words in
19
           that, but you can shorten it to "your
20
           analysis of quality of life."
21
                  MR. SOBOL: Is that -- "your
22
           analysis," is that one word or two?
23
                  THE WITNESS: It's your
24
           analysis.
25
                  MR. SOBOL: It's your analysis.
```

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# $\hbox{\tt Highly Confidential - Subject to Further Confidentiality Review}\\$

```
don't have a specific opinion about
           particular medical options.
3
     OHESTIONS BY MR LONERGAN.
                  Do you agree that all
4
     treatments for chronic pain have risks?
                  MR. SOBOL: Objection. Scope.
6
                  THE WITNESS: I don't know.
7
     QUESTIONS BY MR. LONERGAN:
                  It's not something you
9
10
     considered as a part of conducting your
11
     economic analysis, correct?
12
                  MR. SOBOL: Objection. Scope.
13
                  THE WITNESS: Yeah, I didn't
14
           study that.
15
     QUESTIONS BY MR. LONERGAN:
16
                  Do you agree that it's the role
17
     of the prescribing physician to weigh the
18
     risks and benefits of any pain medication
19
     when treating an individual patient?
2.0
                  MR. SOBOL: Objection. Scope.
21
                  THE WITNESS: Well, ideally an
22
           agent, which is what the economic
2.3
           literature refers to physicians as --
24
           an agent is somebody acting on behalf
           of the patient -- should help the
```

```
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```

```
QUESTIONS BY MR. LONERGAN:
                  Do you agree --
                   MR. LONERGAN: I'm running
           against the clock here. I would love
            to engage with you guys.
     QUESTIONS BY MR. LONERGAN:
7
                  Do you agree that no single
     treatment option will be appropriate for
     every chronic pain patient?
                  I really don't know. It's
11
     not. --
           Ο.
                  It's not something you --
13
           Α.
                   -- not mv --
14
                   -- considered in your economic
           Ο.
15
     analysis --
16
           Α.
                  It's not mv --
17
           Ο.
                  -- correct?
18
           Α.
                  Yeah, it's not my expertise.
19
           Ο.
                  Do you agree that it is
20
     important for physicians to have a variety of
21
     treatment options to choose from when
     treating a medical condition?
22
23
                  MR. SOBOL: Objection. Scope.
24
                  THE WITNESS: I really --
25
            generally, options are good. I really
```

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```
patient in making the right decision
           for them.
3
     OHESTIONS BY MR LONERGAN.
           Ο.
                  And you believe --
                  Considering --
           Α.
                  You believe that didn't happen
           Ο.
     here, correct?
           Δ
                  Considering the pluses and
9
     minuses.
10
                  Could you be more specific
11
     about what you're asking?
                  Well, strike that.
12
           Ο.
13
                  In paragraph 22 of your public
     nuisance report, you opined that physicians
14
15
     were misled by defendants' marketing,
16
     correct?
17
           Α.
                  That's what I say in the last
18
     sentence.
19
                  And that's your opinion?
2.0
                   Well, it's my opinion. It's,
21
     again, based on the reports of the medical
22
23
                  You're not an expert on the FDA
24
     regulations concerning prescription
     pharmaceutical marketing, are you?
```

```
I know something about them.
     It depends on what you ask.
3
                   Do you hold yourself out to be
     an expert on the FDA regulations concerning
     prescription pharmaceutical marketing?
                   Well, it again depends. In my
     work, I need to know some things. So it's
     not zero. It's not 100 percent. It really
     depends on the particular area you're asking
     about.
11
           Q.
                   Well, the particular area I'm
12
     asking about are the FDA regulations
     concerning prescription pharmaceutical
13
14
     marketing.
15
           Α.
                   Yes.
16
                   Do you consider yourself to be
17
     a 100 percent expert on those regulations?
18
                   MR. SOBOL: Objection. Asked
19
            and answered.
2.0
                   THE WITNESS: No, I don't
21
            consider myself to be a 100 percent,
22
            but I'm also not a zero percent.
23
     QUESTIONS BY MR. LONERGAN:
                  Do you have an opinion in this
24
25
     litigation as to whether defendants'
```

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#### Highly Confidential - Subject to Further Confidentiality Review

```
OUESTIONS BY MR. LONERGAN:
2
                  What do you understand the term
           Ο.
3
      "learned intermediary" to mean?
                   Well, I explained my -- I don't
4
     have a specialized legal understanding. I
     only explain what the two words mean to me in
     this context. I don't know if that was
     clear.
9
                   But learned is specialized
10
     medical knowledge that patients don't have,
11
     and intermediary means they assist the
     patients in provide -- in getting access to
12
13
     services that the patients needs.
14
            Ο.
                   Fine.
15
                   Using your definition of
16
     learned intermediary, do you consider doctors
17
     who prescribe prescription opioids to
18
     patients to be learned intermediaries?
19
                   MR. SOBOL: Objection. Scope.
2.0
            Form.
21
                   THE WITNESS: Well, I think in
22
            general doctors are learned
2.3
            intermediaries, and so that covers
24
            doctors and, you know, the tasks that
            thev have.
```

```
prescription opioid marketing violated the
     FDA regulations concerning prescription
     pharmaceutical marketing?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: That's not
           something that I studied.
7
     QUESTIONS BY MR. LONERGAN:
                  Are you able to point to any
     physician who was actually misled by the
     opioid manufacturers' marketing?
11
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: That's not
13
           something I studied.
14
     QUESTIONS BY MR. LONERGAN:
15
                  Do you agree that physicians
16
     are learned intermediaries?
17
                  MR. SOBOL: Objection. Scope.
18
                  THE WITNESS: Well, I agree
19
           that physicians have medical knowledge
2.0
           that patients generally do not know,
21
           and I agree that they're
22
           intermediaries in a number of ways
23
           between patients and the patients'
24
           needs and the health care services and
25
           products that patients require.
```

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```
OUESTIONS BY MR. LONERGAN:
                  Sir, is it your understanding
3
     that each prescription opioid at issue in
     this litigation carries with it an
     FDA-approved label or package insert?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Yeah, I do
           understand that
9
     OUESTIONS BY MR. LONERGAN:
10
                  And you understand that the
11
     pharmaceutical manufacturers' employees who
12
     detailed doctors provided those labels to
13
     physicians during those detail visits?
                  MR. SOBOL: Objection. Scope.
14
15
                  THE WITNESS: Well, I don't
16
           know what the transaction was between
17
           the detail people and the doctors.
     QUESTIONS BY MR. LONERGAN:
18
19
                  Do you have an opinion as to
2.0
     whether the FDA-approved labels for the
21
     prescription opioids at issue in this
22
     litigation were misleading?
23
                  MR. SOBOL: Objection. Scope.
24
                  THE WITNESS: I don't have an
           opinion about that. I didn't study
```

```
it.
     QUESTIONS BY MR. LONERGAN:
3
                  In your opinion, is it possible
     for an opioid manufacturer to appropriately
     market a prescription opioid?
                  MR. SOBOL: Objection. Scope.
7
                  THE WITNESS: Well, it might
           be. I didn't study it.
     QUESTIONS BY MR. LONERGAN:
                  Well, you did -- I mean, you
11
     did opine that the opioid manufacturers
12
     misled physicians, correct?
                  MR. SOBOL: Objection. Scope.
13
14
                  THE WITNESS: Yeah, based on
15
           other reports, yes.
     QUESTIONS BY MR. LONERGAN:
16
17
           Ο.
                  Right.
18
                  But based on your understanding
19
     that the manufacturing was misleading, right?
20
                  MR. SOBOL: Objection. Scope.
21
                  THE WITNESS: Yes.
22
     OHESTIONS BY MR LONERGAN.
23
                  And so here we are. Now I'm
     asking: Is it possible for a prescription
24
25
     opioid manufacturer to, in your mind,
```

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### Highly Confidential - Subject to Further Confidentiality Review

```
Α.
                   Probably sometimes. Not always
     as much as it should be.
3
                  Is one of those factors the
           Ο
     applicable formulary?
                  Sometimes, probably.
           Α.
                  Is one of those factors
     applicable utilization management protocols?
           Δ
                  Well, generally.
9
                  Is one of those factors known
10
     to be a physician's experience with a
11
     particular medication?
12
           Δ
                  That's also one of the factors.
13
                  Is one of those factors known
14
     to be a physician's experience with a
15
     particular disease state?
16
           Α.
                  That's also a factor.
17
                  Is one of those factors known
18
     to be a physician's overall years of
19
     experience?
2.0
           Α.
                  Generally a physician's
21
     experience affects how they treat patients.
22
                  Are there any other factors
23
     that you're aware of that are known to affect
24
     a physician's prescribing?
                  MR. SOBOL: Objection. Scope.
```

```
appropriately market a prescription opioid?
                  MR. SOBOL: Objection. Scope.
           Form.
                  THE WITNESS: It might be on --
           I really didn't study it. I don't
     QUESTIONS BY MR. LONERGAN:
                  Is it possible for an opioid
     manufacturer to market a prescription opioid
10
     in a way that expands the market for
11
     prescription opioid and still be appropriate?
12
                  MR. SOBOL: Objection. Scope.
13
           Form.
14
                  THE WITNESS: I don't know.
15
     QUESTIONS BY MR. LONERGAN:
16
                  As a health care economist, are
17
     you familiar with the economic literature
18
     concerning the factors that influence
19
     physician prescribing?
```

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Δ

Q.

Δ

Ο.

Yes

Yes

overall cost to the patient?

manufacturer marketing?

2.0

21

22

23

24

25

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### Highly Confidential - Subject to Further Confidentiality Review

And is one of those factors

Is one of those factors the

```
THE WITNESS: You gave a pretty
           long list there.
                  Well, at least there's also
           financial incentives to physicians --
     OUESTIONS BY MR. LONERGAN:
5
6
           0
                  Anything else?
                  -- that would also affect it.
                  I think within the buckets you
9
     gave, it would capture most of what I can
10
     think of.
11
                  Given all of the different
12
     factors we've just walked through that are
13
     known in the economic literature to affect a
     physician's prescribing, would you agree that
14
15
     marketing would affect a prescribing
     physician differently from other prescribing
16
     physicians?
17
18
                  MR. SOBOL: Objection.
19
     QUESTIONS BY MR. LONERGAN:
2.0
                  I can ask that question in a
21
     better way.
22
           A.
                  Thank vou.
23
                  Is it fair to say that
24
     detailing would be expected to affect
     different physicians differently?
```

```
MR. SOBOL: Objection. Scope.
                  THE WITNESS: It might. I'm
           not sure.
     OUESTIONS BY MR. LONERGAN:
                  It's not something you have an
     opinion on?
                  I haven't studied it, no.
                   MR. LONERGAN: Why don't we
           take a break.
                   VIDEOGRAPHER: The time is
           4:19 p.m., and we're off the record.
            (Off the record at 4:19 p.m.)
                  VIDEOGRAPHER: The time is
14
           4:32 p.m., and we're on the record.
15
                  CROSS-EXAMINATION
16
     QUESTIONS BY MR. CARTER:
17
                  My name is Ed Carter. I
18
     represent Walmart, and I have some questions
19
     for you.
20
                  All right?
21
                  That's fine. Yeah, sure.
           Α.
22
                  Who are the retail pharmacy
23
     defendants in this case?
24
           Α.
                  I can name some.
25
           Ο.
                  Which ones can you name?
```

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```
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```

```
to the retail pharmacy defendants in the
     public nuisance report.
3
                  What role in terms of conduct
     do the retail pharmacy defendants play in the
     context of your damages report?
            Α.
                   They distribute shipments of
     opioids.
           Ο.
                  Do you know to whom they
9
     distribute those shipments?
10
           Α.
                  Well, to patients.
11
                  Do you know whether they --
12
     whether the retail pharmacy defendants ever
13
     distribute outside of their own corporate
14
     network?
15
                   MR. SOBOL: Objection.
                   THE WITNESS: I'm not sure what
16
17
           you mean.
18
     QUESTIONS BY MR. CARTER:
19
                  So do you know where Walmart --
2.0
      for example, when Walmart distributed
21
     opioids, do you know to whom Walmart
22
     distributed opioids?
23
                   Well, they would have sold some
24
     from their stores. I don't know of any other
     outlet for their opioids.
```

Highly Confidential - Subject to Further Confidentiality Review I can name CVS. I can name Rite Aid. I guess Walmart would be a retail. Any others? Α. Those are the only ones I can name. What consideration, if any, did you pay to the retail pharmacy defendants in preparation of your damages report? I made sure to mention the 10 defendants included signatories to the CSA. Anything else in your damages 11 report that takes the retail pharmacy 13 defendants into specific consideration? 14 No, there's nothing else in the 15 damages report that gives special attention to the retail pharmacies. 16 17 Ο. So nothing beyond their status 18 as CSA signatories? That's correct, no other 19 Α.

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special attention.

Ο.

20

21

22

23

24

25

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report: What specific attention did you pay

to the retail pharmacy defendants in the

course of preparing your nuisance report?

Same question for the nuisance

There was no special attention

Do you know whether Walmart

```
ever distributed to a non-Walmart pharmacy?
                  No, I don't know that.
            Ο.
                  Do you know whether any CVS
     distribution ever went to a non-CVS Pharmacy?
                  I'm not familiar with where
     else the CVS shipments might have gone.
           Ο.
                  Same question for Rite Aid?
9
                  Same answer: I'm not sure
10
     where the Rite Aid shipments would have gone,
11
     aside from Rite Aid pharmacies.
12
           Q.
                  Do you know whether any of the
13
     retail pharmacy defendants currently
14
     distribute opioids?
15
                  MR. SOBOL: Objection. Scope.
16
                  THE WITNESS: I haven't studied
17
           that.
18
     QUESTIONS BY MR. CARTER:
19
                  Will you identify for me all
20
      allegedly wrongful conduct on the part of the
21
      retail pharmacy defendants that factors into
22
     your damages report?
23
                  MR. SOBOL: Objection. Scope.
24
                  THE WITNESS: I didn't study
```

```
QUESTIONS BY MR. CARTER:
2
                  Okay. Identify for me all
     wrongful conduct on the part of the pharmacy
     defendants that factors into your nuisance
     report.
                  MR. SOBOL: Objection. Scope.
7
                  THE WITNESS: I didn't study
           that.
     QUESTIONS BY MR. CARTER:
                  In your damages report, is it
11
     possible that there are some defendants in
12
     this case that are not responsible for any
13
     damages -- any of your damages estimates?
14
                  MR. SOBOL: Objection. Scope.
15
           Form.
16
                  THE WITNESS: I'm not sure how
17
           to even answer that. I didn't study
18
           it.
     OUESTIONS BY MR. CARTER:
19
20
                  So in the course of preparing
21
     your damage reports, is it accurate to say
22
     that you did not make any calculation or
23
     apportionment of the damages in your estimate
24
     to any particular defendant? Is that a true
25
     statement?
```

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# $\hbox{\tt Highly Confidential - Subject to Further Confidentiality Review}\\$

```
report turn in any way on a specific
     defendant?
3
                  MR. SOBOL: Objection. Form.
                  THE WITNESS: Can you --
4
     OUESTIONS BY MR. CARTER:
5
6
           Ω
                  Sure
                  -- explain what you mean by
7
     "turn in any way"? I'm not sure what you're
9
     asking.
10
                 In looking at your public
11
     nuisance report, can anyone pull from that a
12
     specific apportionment of damages that you
13
     would attribute to an individual defendant?
                  Well, this is a similar answer
14
15
     to the damages report: that my estimates are
16
     aggregate, and against which shares are
17
     applied from the Cutler report.
18
                  So if those shares change
19
     because of some other counterfactual, then
2.0
     they would flow through into my public
21
     nuisance.
22
                  Okay. Do you know how many
23
     defendant parties are in the case currently?
24
                  I'm not sure.
                  Okay. If five defendants left
```

```
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                   That's generally a true
3
                  As I'm sure you know, the work
     in my report was to identify the potentially
     affected costs, and then I had input,
     primarily from Professor Cutler, about the
      share of those costs that could be attributed
      to misconduct.
                  Now, the nature of the overall
10
     enterprise is that the attribution to
11
     particular defendants becomes possible at the
     Rosenthal stage, depending on some things,
13
     but it's not an input that would come into
14
     play in my stage.
15
           Ο.
                  So putting to one side inputs
16
     from Cutler or from Rosenthal, vou.
17
     personally, you have not conducted an
18
     independent assessment of damage estimates
19
     apportioned to a particular defendant?
20
                  That's correct, my damage
21
     estimates apply to shipments due to
22
     misconduct where I got the inputs from other
23
     experts.
```

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Ο.

24

25

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# Highly Confidential - Subject to Further Confidentiality Review

report. Do the estimates in your nuisance

Same question for your nuisance

```
the case tomorrow, would any of the numbers
     in your damages report change?
3
                  MR. SOBOL: Objection. Scope.
           Form.
                  THE WITNESS: I'm not sure. It
           depends. I would have to -- I'd have
           to know more. I'd have to probably
           get some guidance from legal.
     QUESTIONS BY MR. CARTER:
9
10
                  Okay. So, for example, if all
11
     of the retail defendants were dismissed from
12
     the case tomorrow, would you amend or need to
13
     change your damages calculations in your
14
     report?
15
                  MR. SOBOL: Objection. Scope.
16
           Form.
17
                  THE WITNESS: I'm not sure. I
18
           didn't study that.
19
     QUESTIONS BY MR. CARTER:
2.0
                  Okay. If five defendants left
21
     the case tomorrow, would you need to make any
22
     changes to your public nuisance report?
23
                 MR. SOBOL: Objection. Scope.
24
25
                  THE WITNESS: I would have
```

```
to -- I'm not sure. I didn't study
            that, and I probably need guidance
            from legal.
     OUESTIONS BY MR. CARTER:
                  In describing marketing
     conduct, do you agree that a defendant who
     never marketed or advertised opioids is not
     responsible for any alleged harms caused by
     such marketing?
                   MR. SOBOL: Objection. Scope.
11
                   THE WITNESS: I'm not really
12
            sure about that.
13
     QUESTIONS BY MR. CARTER:
14
            Ο.
                   Okay.
15
            Α.
                  I'm sorry.
16
                   So you think it's possible that
17
     someone who didn't engage in marketing or
18
     advertising could still be responsible from
19
     an economic perspective for any such harms
20
     caused by that marketing?
21
                   MR. SOBOL: Objection. Form.
22
           Scope.
23
                  THE WITNESS: I -- I'm not --
24
           T'm not sure.
25
```

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```
defendants were or should have been aware of
     the interference?
3
                  I do recall that, yes.
           Δ
                  Okay. Do you know whether any
     of the retail pharmacy defendants are --
     well, strike that.
7
                  Do you intend to include any of
     the retail pharmacy defendants in the
     statements that you offer in this section of
9
10
     your report?
11
                  MR. SOBOL: Section D?
12
                  MR. CARTER: Yes.
13
                  THE WITNESS: Yeah,
14
           potentially.
15
     QUESTIONS BY MR. CARTER:
                  Okay. Do you provide any
16
17
     examples that specifically identify retail
18
     pharmacy defendants in this section?
19
                  No, I don't think so.
2.0
                  Did you conduct any separate
21
     analysis of the alleged conduct of the retail
22
     pharmacy defendants in connection with
23
     forming the opinions in Subsection D of this
24
     report?
                  The analysis I conducted are
```

```
Highly Confidential - Subject to Further Confidentiality Review
     QUESTIONS BY MR. CARTER:
                  Okay. Do you have an expert
     opinion one way or another on that?
                  MR. SOBOL: Objection. Scope.
           Form.
                   THE WITNESS: I'm not sure.
     QUESTIONS BY MR. CARTER:
                  Okay. So you don't --
                  I don't have an opinion one way
10
     or the other whether that's true or false.
11
                  Okay. You were asked some
           Ο.
     questions about pages 90 and 92 of your
     nuisance report. If you turn to that section
13
14
     with me, please, I just want to orient you.
15
                  You see the paragraphs 90 and
16
     92?
17
                  Yeah. Okay. Good.
           Α.
18
                  The one question that didn't
           Ο.
     get a form objection.
19
20
                  MR. SOBOL: Well, I was still
21
           confused.
22
                  MR CARTER: Fair
23
     OUESTIONS BY MR. CARTER:
```

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24

25

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counsel the defendant -- the Subheading D,

So you recall discussing with

```
contained in the report. There was nothing
     specific to the retail defendants.
3
                  You were asked a question about
     whether you knew when the counties first were
     aware of -- or should have been aware of the
     various harms referenced in this section of
     the report. I want to follow up on that
     series of questions.
9
           Α.
10
                  You indicated that you didn't
11
     know when they were first aware. I want to
12
     ask a different question.
13
                  Is there a time period by which
14
     you can opine to a reasonable degree of
15
     economic certainty that more likely than not
16
     by day X Summit County was aware that it was
17
     being harmed as a result of misleading
18
     marketing?
19
                  MR. SOBOL: Objection. Scope.
2.0
                  THE WITNESS: I don't think I
21
           could do that. I wasn't asked to
22
           study it.
23
     QUESTIONS BY MR. CARTER:
24
                  Okay. Same question for
     Cuyahoga County.
```

```
MR. SOBOL: Same objection.
           Scope.
                  THE WITNESS: Same answer: I
           wasn't asked to study it. I don't
           think I could do that.
     QUESTIONS BY MR. CARTER:
7
                  Is there a date by which you're
     willing to opine more likely than not Summit
     County was aware that it was incurring harms
     to the public health and welfare as a result
11
     of opioid-related expenses?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I wasn't asked to
14
           study that. I don't think I could
15
           answer that question.
     QUESTIONS BY MR. CARTER:
16
17
           Ο.
                  Same question for Cuyahoga
18
     County.
19
           Α.
                  Same answer: I wasn't asked to
20
     study it. I don't think I could answer that
21
     question.
22
           Ο
                  Is it your opinion that when
23
     Summit County was expending its budget for
24
     2006, did the county have any idea that it
     was making expenditures that were related to
```

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```
to ask about the county as being aware of
2
     something.
3
                  I assume what you mean by that
     is something about the people who work in the
     county. And since there are many, that would
     have probably been a different answer for
     different groups of people.
                  In your review of the case
9
     materials, did you come across individuals in
10
     Summit County who were aware of making
11
     opioid-related expenditures in 2006?
12
           Α.
                 I don't remember talking to
13
     anyone about 2006.
14
                  What about 2007? And this is
15
     focused on your review of the case materials,
16
     whether you're aware of individuals in Summit
17
     County reflecting awareness that they were
18
     making opioid-related expenditures in 2007.
19
                  I don't remember anything,
2.0
     sitting here.
21
           Q.
                  Okay. Do you remember anything
22
     for 2008?
23
                  Same answer: I don't remember
24
     anything sitting here.
```

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```
opioids?
                   I would be speculating, and
     what is the county here?
           Ο.
                  Summit.
           Α.
                  I know. I meant when you say
      "Summit County," that kind of knowledge is
     something that people have, so I would expect
     it would depend.
                  So do you know -- do you have
10
     an expert opinion one way or the other as to
11
     whether in 2006, when expending its budget in
     the various divisions that you studied.
13
     whether Summit County was aware that it was
14
     spending even a dollar on opioid-related
15
     costs?
16
                  MR. SOBOL: Objection. Scope.
17
           Form.
18
                  THE WITNESS: Well, I didn't
19
           study that.
20
     QUESTIONS BY MR. CARTER:
21
           Ο.
                  Would that --
22
                  Just -- excuse me, one more
23
     comment
24
           Ο.
                  Sure.
25
                  It's -- I find it a little odd
           Δ
```

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```
Α.
                  Same answer: I don't remember
     anvthing.
3
                  Same answer the rest of the
           Ω
     years through 2018?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Do you mind
           repeating the question for the block
           of vears there?
9
     QUESTIONS BY MR. CARTER:
                 Sure. Yes.
10
11
                  The last one I did was 2009.
12
     So from 2010 to 2018, did you see anything in
13
     your review of the case materials reflecting
14
     an understanding on the part of individuals
15
     in Summit County that they were making
16
     opioid-related budget expenditures?
17
                  I'm pretty sure I did.
18
                  Okay. And what is the first
19
     year that you recall seeing something in the
2.0
     case materials reflecting that understanding
21
     from an individual in Summit County?
22
           A.
                  I don't remember.
23
           Ο.
                  Okay. What about Cuyahoga
24
25
                  And I'm asking this question at
```

```
the county level. Do you know whether the
     county, in making its budget expenditures for
     2006, if the county was aware that it was
     spending even a single dollar on
     opioid-related expenses?
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I didn't study
           that. I'm not sure.
     QUESTIONS BY MR. CARTER:
                  Okay. Did you study the
11
     county's awareness for any period from 2007
     to 2018 on that same issue?
           A.
                  Well, I would have encountered
14
     evidence for that.
15
           Ο.
                  Okay. And what do you -- what
16
     did vou do when vou encountered such
17
     evidence?
18
                  How did you factor it into your
     economic analysis, if at all?
19
20
                  MR. SOBOL: Objection. Form.
                  THE WITNESS: Well, I found it
21
22
           to be confirmatory that these are
23
           opioid-related expenditures. I don't
24
           remember when, in each of the
           counties. I heard -- or talked to
```

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```
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```

```
OUESTIONS BY MR. CARTER:
                  Do vou know whether it was more
3
     than 50 percent of the expenditures you
     studied?
                  It could -- it could be or
           Α.
     maybe not -- it could be yes or could be no.
     I'm not sure.
                  Do you know the percent of
           Ο.
9
     instances in Summit County where you found
10
     confirmatory evidence that the individuals in
11
     the county in the various divisions were
12
     aware that they were making opioid-related
13
     expenditures?
14
                  MR. SOBOL: Objection.
15
                  THE WITNESS: I don't remember
16
           one way or the other.
17
     QUESTIONS BY MR. CARTER:
18
                  Okay. Does the absence of any
19
     such confirmatory evidence give you any pause
2.0
     in the course of your economic analysis?
21
                  Not really. The work that I
22
     did in identifying opioid-related
23
     expenditures is a reliable way to get an
24
     opportunity cost, as we discussed quite a bit
     this morning. And that is the opportunity
```

```
Highly Confidential - Subject to Further Confidentiality Review
            someone that they acknowledged, yes,
            these are opioid-related expenditures.
                  But, I don't know, just in the
           course of conversation, that became
           clear.
     QUESTIONS BY MR. CARTER:
                  To the extent you came across
     confirmatory evidence, what value, what
     weight, would you assign that in the course
     of your economic analysis?
11
                  MR. SOBOL: Objection.
                  THE WITNESS: I'm not sure how
13
           to answer that.
14
     QUESTIONS BY MR. CARTER:
15
                  So do you know what proportion
16
     of -- because we were talking about Cuyahoga
17
     County.
18
                  Do you know what proportion of
19
     Cuyahoga County's expenditures you found
20
     equivalent, confirmatory evidence that the
21
     individuals running those divisions were
22
     aware of opioid-related expenditures?
23
           A.
                 I'm not sure.
```

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24

25

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MR. SOBOL: Objection.

```
cost with respect to what else those funds
     could have been used for. So it was -- I
3
     mean, that's what I needed to know.
                In the course of your example
5
     about getting the car fixed and whether
     somebody has $75 in car repairs, I want to
     apply that to what we're discussing here.
                  Would it be possible to have an
9
     opportunity cost for car repairs if the
     individual didn't even understand that they
10
11
     were spending $75 on car repairs?
12
                  MR. SOBOL: Objection to the
13
           form.
     QUESTIONS BY MR. CARTER:
14
15
                 How does the concept of
16
     opportunity cost apply when someone doesn't
17
     know what they're spending the money on?
18
           A.
                  I think it still applies.
19
                  How so?
2.0
                  Why not?
21
                  So you think that -- well,
           Q.
22
     strike that.
23
                  Would a reasonable and rational
24
     economic actor spend millions of dollars on
     something without knowing they're spending
```

```
that money on something?
2
                  They probably would not, but
     that's different than whether -- what the
     opportunity costs of that fund -- or those
                  So to the extent -- well,
     strike that
                  Did you see evidence in the
     record you reviewed where individuals in
     various divisions of the county disavowed any
11
     opioid-related expenditures prior to, say,
12
     20122
                  Did you see that testimony?
14
                  MR. SOBOL: Objection.
15
                  THE WITNESS: I don't recall
16
            it.
17
     QUESTIONS BY MR. CARTER:
18
                  Okay. Do you recall when --
     well, do you know who Thomas Gilson is?
19
20
            Δ
                  No, sorry.
21
            Ο.
                  Do you know who Hugh Shannon
22
     is?
23
                  No, I don't.
24
                  Do you know the names of any of
     the individuals in the Cuyahoga County's
```

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#### Highly Confidential - Subject to Further Confidentiality Review

```
that the Cuyahoga County Medical Examiner's
     Office spent millions of dollars on
3
     opioid-related expenditures for years before
     they realized they had an opioid-related
     crisis?
6
                  MR. SOBOL: Objection. Scope.
7
           Form.
                  You can answer
                  THE WITNESS: I believe it's
9
10
           possible.
11
                  Was that a question?
12
                  Well, I think maybe it's
13
           possible. I didn't study it.
     QUESTIONS BY MR. CARTER:
14
15
                  Okay. On page 12 of your
16
     nuisance report, if you turn there with me.
17
                  Okay. Is your measure of
18
     opioid-related expenditures an objective or a
19
     subjective measure?
2.0
                  With respect to the damages
21
     report or -- I thought we were in the public
22
     nuisance report.
23
                  We're going back to the damages
24
      report.
                  And in general in the damages
```

```
Highly Confidential - Subject to Further Confidentiality Review
     Medical Examiner's Office, other than the two
     I just gave you?
3
                   Not as I sit here today.
                   Okay. Do you know when
     Cuyahoga County Medical Examiner's Office
      first identified an opioid-related problem?
7
                  An opioid-related problem?
                   Problem in what sense here
     today? A death due to opioids, or what are
10
     you asking?
11
           Q.
                   What they defined as a crisis.
                   Do you know when --
13
           Α.
                   They defined as a crisis.
14
                   -- they first identified a
15
     crisis?
16
                  I'm not sure --
17
                  MR. SOBOL: Well, wait, wait.
18
           Objection. Scope.
19
                  THE WITNESS: I didn't study
2.0
            that
21
     QUESTIONS BY MR. CARTER:
22
                  Okay. Do you believe it's
23
     possible that the Summit County -- or excuse
```

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me. strike that.

24

25

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#### Highly Confidential - Subject to Further Confidentiality Review

Do you believe it's possible

```
report, opioid-related expenditures you're
     asking about?
3
           Ο
                  Is it an objective or
5
     subjective measure?
                  It's an objective measure.
6
           Δ
                  Okay. Are opioid-related
     expenditures ever self-evident to the people
9
     making them?
10
           Α.
                  Sometimes, yes.
11
           Ο.
                  Are you a political economist?
12
                  I border on that, yeah. Some
           Α.
13
     cases.
14
           Ο.
                  Do you hold yourself out as an
15
     expert political economist?
16
                  Well, it's something I've done
17
     research on, so, again, depending on what the
18
     question is, I have some expertise in that,
19
2.0
                  In your prior litigation
21
     experience, have you ever been offered as an
22
     expert political economist?
23
                  Political economist? I don't
24
     think I've conducted a litigation-related
      investigation that you would call political
```

```
economy.
2
                   Okay. In the course of your
     report, you rely on data from Professor
     Cutler from the National Center of Health
      Statistics, correct?
            Α.
                   Yes.
            Ω
                   Okay.
            Α.
                   I believe so. Or maybe is it
     Rosenthal?
                   Can vou -- I'm sorry, can vou
11
     let me know where you're talking about so I
12
     can take a look?
13
           Ο.
                  Let me ask you this: Are you
14
     aware that there are some NCHS data that's
15
     considered restricted data?
                   Yeah, I'm generally aware of
16
17
     this sort of issue, yeah.
18
                  Did you personally sign a data
19
     use agreement with NCHS for your work in this
20
     engagement?
21
           Α.
                  No, I did not.
22
                  Okay. When you were working
23
     with Grevlock McKinnon Associates for the
24
     nuisance report, do you know whether the
     staff at Greylock McKinnon signed a data use
```

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#### Highly Confidential - Subject to Further Confidentiality Review

```
Ο.
                   Okay. And you were asked
     specifically about the question -- or excuse
3
     me, the statement contained in there where it
     says, "Information doctors were being given
     about the dangers of prescription opioids was
     in most cases false and systematically and
     intentionally misleading."
                  Do you recall that?
9
            Α.
                  I do recall that.
10
                  Did you read in preparation for
11
     your deposition today Dr. -- Professor
12
     Perri's deposition?
13
                   No, I did not.
14
                   If Professor Perri's testimony
15
     was that he has not made any determination
16
     whether specific marketing was unlawful,
17
     false and misleading or whether it was lawful
18
     and appropriate, if he's made no such
19
     determination and only looked at the
2.0
     marketing in the aggregate, does that impact
21
     your reliance on his report on page 13 of
22
     your report?
23
                   MR. SOBOL: Objection. Assumes
24
            a fact not in evidence.
                   You can answer.
```

```
Highly Confidential - Subject to Further Confidentiality Review
      agreement with NCHS?
                   MR. SOBOL: Objection. Scope.
                  THE WITNESS: As far as I know,
           they did not.
     QUESTIONS BY MR. CARTER:
                  Okay. As part of your
      supervision of their work, were you concerned
      whether they were using restricted data
     appropriately?
                   MR. SOBOL: Objection.
11
                  THE WITNESS: My understanding
12
            of where the NCHS data came in was via
            Rosenthal report. If there's -- and
14
            that's how I'm answering the question.
15
           And any data use arrangements wouldn't
16
           have been -- I wouldn't have known
17
            about them.
18
                   If there's some other NCHS
19
           piece, then let's take a look.
20
     QUESTIONS BY MR. CARTER:
21
                  You cited in your nuisance
22
     report on page 13, I believe, Dr. Perri's
23
     report, and you discussed that a little bit
24
     today.
```

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Δ

25

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#### Highly Confidential - Subject to Further Confidentiality Review

I see that.

```
THE WITNESS: It's something I.
           of course, would benefit from seeing
           what Dr. Perri said, but it doesn't
           seem to be in conflict with what I say
           here.
     OHESTIONS BY MR CARTER.
                  Are you aware of Professor
     Perri's testimony that regardless of the
9
     various input, regardless of the marketing,
10
     at the end of the day, physicians have the
11
     ultimate responsibility for selecting
12
     medications to prescribe?
13
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: I'm sorry, was I
14
15
           aware of what Dr. Perri -- was that
16
           the question?
17
     QUESTIONS BY MR. CARTER:
18
                  Yes
19
                  Was I aware of what he said
           Α.
2.0
     about that?
21
           ο.
22
                  I'm not aware of what he said
23
     about that.
24
                  Do you agree that regardless of
     the marketing input physicians have the
```

```
ultimate responsibility for selecting
     medications to prescribe?
3
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, generally
            physicians help patients determine
            what is the appropriate course of
            treatment
     QUESTIONS BY MR. CARTER:
            Ο.
                  Okay.
            Α.
                  In -- you know, not just drugs,
11
     but in other things, too.
12
            Ο.
                  You were asked about your
13
     definition of opioids, and it including
14
     all-comers, prescription opioids, illicit
15
     opioids. I want to follow up on other
     illicit drugs.
16
17
                  Do overdose deaths and abuse
     for nonopioid illicits, such as cocaine or
18
19
     methamphetamine, do those factors in any way
20
     into your damages report?
21
           Α.
                  I don't think directly, no.
22
                  Okay. You agree it would be
23
     improper to include estimates in your
     opinions of damages chargeable to the
24
     defendants on account of cocaine abuse and
```

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```
did cocaine costs find their way into your
     economic analysis for your nuisance report?
3
                  MR. SOBOL: Objection. Form.
4
                  You can answer.
                  THE WITNESS: Yeah, cocaine
           costs -- what do you mean by "cocaine
7
           costs"?
     OHESTIONS BY MR CARTER.
9
                  Costs that any of the divisions
     of either of the counties incurred as a
10
11
     result of addressing cocaine.
12
                  Addressing. Oh, you mean
           Α.
13
     government expenditures?
14
           Ο.
15
           Δ
                  So we're talking damages now.
16
                  So in terms of damages, I don't
17
     think so.
18
           Ο.
                  Do you know -- well, strike
19
     that.
2.0
                  When you were coming up with
21
     your division costs for the jail, do you know
22
     the rate of expenditures related to dealing
23
     with cocaine -- crimes involving cocaine?
24
                  The rate of expenditures. I
     didn't investigate that.
```

```
overdose deaths, correct?
                   MR. SOBOL: Objection. Scope.
3
                  THE WITNESS: Well, you know, I
           interpreted my task as identifying
           opioid-related deaths due to
           shipments. And people die from other
           things, but that's what I attempted to
           identify.
     QUESTIONS BY MR. CARTER:
10
                  Does your nuisance report
11
     include any damages related to cocaine abuse
     and overdose?
13
                  MR. SOBOL: Objection. Form.
14
                  You can answer.
15
                  THE WITNESS: I'm thinking
16
           where it might come in.
17
                  You know, if, in the elevated
18
           health care costs section, any of
19
           those elevated costs are associated
2.0
           with, you know, a range of other
21
           health care treatments, then different
22
           things could have figured into that
23
           estimation
```

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25

QUESTIONS BY MR. CARTER:

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Do you -- sitting here today,

```
Do you know how those rates
     compare historically over the years to the
     rates dealing with prescription opioids?
                  MR. SOBOL: Objection. Asked
           and answered. Scope.
                  THE WITNESS: I didn't study
           that.
     OHESTIONS BY MR CARTER.
9
                  Okay. What about with respect
10
     to the indigent defendant category? Do you
11
     know the costs to the indigent defendant with
12
     those division expenditures related to
13
     cocaine abuse?
14
                  MR. SOBOL: Objection. Scope.
15
                  THE WITNESS: I missed -- the
16
           indigent what?
17
     QUESTIONS BY MR. CARTER:
18
                  The indigent defendants?
19
                  Indigent defendants.
           Α.
2.0
                  Yes.
21
                  One of the divisions that you
22
     deal with in the court system, one of those
23
     line item costs is indigent defendant cases,
24
     correct?
```

Oh, okay.

```
MR. SOBOL: You don't mean the
            distributors and manufacturers that
            are indigent here.
                  THE WITNESS: Okay. That's
            where I was confused here.
                   So it's not -- I thought it was
            defendants in this litigation, but you
            mean defendants in the legal process.
     OUESTIONS BY MR. CARTER:
                  Yes.
11
                  So would you mind asking me
     again?
13
            ο.
                  Sure.
14
                  One of the divisions that you
15
     looked at in the counties related to
     expenditures in indigent defendant cases in
16
17
     the counties, correct?
18
            Α.
                  Yes.
19
            Ο.
                  Okav. Do you know the rate of
20
     expenditures related to cocaine abuse in
21
     either county for any year that you looked
22
23
                  MR. SOBOL: Objection. Scope.
24
           Form.
25
                  THE WITNESS: I didn't study
```

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```
there would still be damages in this case?
                  MR. SOBOL: Objection. Scope.
3
                  You can answer
                  THE WITNESS: I'm not sure.
4
     OUESTIONS BY MR. CARTER:
6
                  Do you agree that illicit
     fentanyl is the overwhelming cause of
     overdose death in Summit County currently?
9
                  MR. SOBOL: Objection.
10
                  THE WITNESS: "Cause" is an
11
           important word here, and it's the
12
           proximate cause. It may not be the
13
           ultimate cause.
     QUESTIONS BY MR. CARTER:
14
15
                  Okay. So what's the ultimate
16
     cause, if not illicit Chinese fentanyl, in
17
     Summit County currently?
18
                  Well, this is something that
19
     Professor Cutler studied, very explicitly.
2.0
                  Do you have an expert opinion
21
     as to the ultimate cause?
22
                  Well, with respect to the
23
     ultimate cause, Professor Cutler looked
24
     directly at illicit drugs in a post-2010
     period, including up through -- I guess his
```

```
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            that.
      QUESTIONS BY MR. CARTER:
                  Okay. I want to go back to
     what I was trying to find earlier. It was
     page 12 of your damages report.
                   And at the top of the page, the
     paragraph that continues from the previous
     page, towards the end, the second to the last
     sentence of that paragraph reads as follows:
      "This, in turn, implies that some harms, and
11
     thus damages to bellwether governments, could
     have been avoided if distributor defendants
13
     had not acted improperly."
14
                   Did I read that correctly?
15
           Α.
                  Yes, you did.
16
                  So do you stand by that
17
     statement?
18
                  Let me just take a look at the
     paragraph since there's some thuses in there.
19
20
                  Yes, I do stand by it.
21
                  Okay. So do you agree that if
```

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22

23

24

25

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the defendant distributors in this case had

only and exclusively acted in a way that you

would consider to be compliant with the law

and had done nothing allegedly improper, that

```
empirical work didn't cover 2018, but it went
     up to 2016. And he estimated the share of
     illicit deaths that were attributable to
     shipments.
                  And that's an analysis about
     the ultimate cause, which is going back to
     what set the chain of events in motion. That
     was what he determined
                  And I want to put Professor
9
10
     Cutler out of my question.
11
                  My question is: Do you have an
12
     expert opinion as to the ultimate cause?
13
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, I would
14
15
           rely on Professor Cutler for that.
     QUESTIONS BY MR. CARTER:
16
17
                  Okay. Do you have any
18
     separate, independent opinion to add, or
19
     would you just repeat what Professor Cutler
2.0
     would have on that point?
21
                  MR. SOBOL: Objection. Scope.
                  THE WITNESS: Well, I didn't
22
23
           study that personally. He did a very
24
           good job, and I'm very happy to rely
           on what he did.
```

```
QUESTIONS BY MR. CARTER:
2
                  Same question for Cuyahoga
     County: Do you yourself have an opinion
     regarding the overwhelming cause of overdose
     death currently in Cuyahoga County?
                  Well, in that case as well, I
     didn't conduct an independent study. I
     relied on the opinions of Professor Cutler.
                  Okay. With respect to your
     damages calculations, do the estimates in
11
     your damage report account for any progress
     increased deficiencies in opioid-related
     expenditures on behalf of the county?
14
                  I'm not sure what you mean by
15
     that.
16
                  For example, does it take into
17
     account whether, over the years, Cuyahoga
18
     County, for example, improved its addiction
19
     interventions related to opioids?
20
                  MR. SOBOL: Objection.
21
                  THE WITNESS: And then the
22
           question was, does my analysis take
23
           that into account?
     QUESTIONS BY MR. CARTER:
24
25
                  Ves
```

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```
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```

```
to be what -- how good a job they did, then
     it's not part of what I needed to know.
3
                  Switching gears.
                  In the course of your analysis
     of the medical examiner division, is one of
     the things you looked at autopsies related to
     opioid-related incidents?
           Δ
                  That was part of the data that
9
     fed in, yes.
10
                  In the course of analyzing that
11
     data, did you control for suicides caused by
12
     opioids?
13
                  I wasn't controlling for
14
     things, so I'm not sure what you're getting
15
     at here
16
                  So did you exclude from the
17
     data of opioid-related deaths, opioid-related
18
     deaths caused by suicide?
19
                  MR. SOBOL: Objection. Asked
2.0
           and answered.
21
                  THE WITNESS: Okay. It wasn't
           necessary for me to exclude suicides
23
           given the methodology I was applying,
24
           which relied on the share of deaths
           attributable to shipments from the
```

```
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                   The approach of opportunity
      costs, again, doesn't require me to determine
     the -- whatever value is received for the
      services -- for the dollars that were
     directed to opioid-related activities. So I
     don't need to do that.
                  Does your approach to
     opportunity costs require any assessment of
     the propriety of the spending?
                  By "propriety" you mean --
11
                  Whether it's done efficiently,
     whether it's done as an appropriate steward
13
     of the county's money or whether it's
14
     wasteful.
15
                  Does it make any normative
16
     judgment as to the propriety of the
17
     expenditures that are made?
18
                  The judgment is that, you know,
19
     whether you got -- coming back to my car
20
     example, whether or not the car repair shop
21
     did a very good job or did a very bad job, it
22
     still cost you $75 to get that, and the $75
23
     could have been devoted to something else.
```

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24

25

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to your question, if you consider propriety

And so I think then in answer

```
report of Professor Cutler.
     QUESTIONS BY MR. CARTER:
3
                  Switching gears to the Summit
     County indigent defendants' point.
                  Do you know what rate the State
     of Ohio reimburses the county for the outside
     appointed counsel?
           Δ
                  No, I'm sorry, I don't know
9
     that
10
                  Do you know that the State of
11
     Ohio does, in fact, reimburse Summit County
12
     for the expenditures to outside counsel
13
     appointed in indigent defendant cases?
14
                 I'm not aware of that.
15
                  Are you aware that the State of
16
     Ohio also reimburses Cuyahoga County for
17
     appointment of counsel in indigent defendant
18
     cases?
19
                  I'm not aware of that.
           Α.
2.0
                  If the State of Ohio reimburses
21
     Summit County and Cuyahoga County between 40
22
     and 50 percent for the cost of those
23
     expenditures, would you make any adjustments
24
     to that category of division expenditures in
     your damages report?
```

```
Well, I think as you know, the
     damages methodology was intended to identify
3
     expenditures by the bellwether governments on
     opioid-related activities.
                  And I investigated the degree
     to which some of those expenditures would
     have been supported by other levels of
     government. I found some, and I deducted
                  I'm -- I think your -- if what
11
     you're saying has some basis, then it's
12
     something I would want to look at.
13
                  So to use your car example, if
14
     you paid $75 to repair your car, walked out
15
     of the dealer and I gave you $75, would that
16
     still be an opportunity cost?
17
                  MR. SOBOL: Objection. Form.
18
                  THE WITNESS: The -- it
19
           would -- the $75 would still be an
2.0
           opportunity cost. The question would
21
           be who bears that opportunity cost.
22
                  And just to change your example
23
           slightly, which I think is also in the
24
           spirit of your question, suppose you
           were insured and your insurer paid up
```

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```
sufficient period of time, then the
     individual would be diagnosed.
3
                   Of course, doctors do the
     diagnosis. But there's a protocol by which
     this diagnosis takes place that indicate that
     the person has opioid use disorder.
           Ο.
                  Have you ever made a diagnosis
     of opioid use disorder?
                   Well, I'm not a physician, so
     I'm not -- I was never asked to diagnose
10
11
     anyone.
12
                   But this is the kind of thing
13
     that if I'm studying an area -- mental health
14
     and substance abuse is something that I
15
     studied a lot, and not only those areas --
16
     then this is the kind of thing you need to be
17
     at least somewhat familiar with.
18
                  And if someone asked you --
19
                   And -- I'm sorry. I have one
2.0
     more thing to add.
21
                   Sure.
22
                   I've done research on the
23
     criteria that would be used to identify
24
     people with disease. A lot of these
```

```
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            to $50 for a repair, and then you only
            paid $25. So the opportunity cost
            from the standpoint of you, the
            household, would be $25.
     QUESTIONS BY MR. CARTER:
                  Thank you.
                  You also discussed earlier
     today the national rates of opioid use
     disorder. I want to follow up on that.
                  Do you know the criteria for an
11
     opioid use disorder?
           Α.
                  The medical criteria?
13
           Q.
                  Yes.
14
                  Broadly.
           Α.
15
                  Okay. What is your
           Ο.
     understanding of those criteria?
16
17
           Α.
                  Well, this is similar to many
18
     mental health diagnoses. There's a set of
     kind of questions, there may be even
19
2.0
     something like 12, which you could call
     criteria for receiving a diagnosis.
21
22
                  And then if the respondent has
23
     a yes to some subset of those, perhaps, say,
```

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24

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7 of the 12, and this interferes with their

normal activities and they occur over a

```
doctor might ask a patient a question about
     something. And the design of that question
     pattern is something I've done research on
     for mental health and substance abuse
     diagnoses.
                  You indicated that you've never
     been asked to make a diagnosis. So if
     someone did ask you to make a diagnosis, you
9
     would decline to do so, correct?
10
                  If someone asked me to make a
11
     medical diagnosis, I would say, "You need to
12
     talk to a physician."
13
                  Okay. And the criteria for
14
     opioid use disorder was first articulated in
15
     the DSM-V, correct?
16
           Α.
                  Oh, I'm not sure where it was
17
     first articulated.
18
                  The portion cited in your
19
     report cites the DSM-V articulation, correct?
2.0
           Α.
                  That sounds right.
21
                  And are you aware that the
     DSM-V articulation of an opioid use disorder
23
     has three different severity classifications
24
     of an opioid use disorder?
```

Generally I was familiar with

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```
that, yes.
            Ο.
                   Do you know what the three
     classifications of severity are in DSM-V?
                   One of them's severe.
                   That's correct.
                   Do you know the other two?
            Δ
                   I would be guessing. I would
     say mild? Yes?
            ο.
                   That is correct.
            Δ
                   And not otherwise classified?
11
                   Yeah. So mild, moderate and
            Ο.
     severe.
13
            Α.
                  Okav.
14
                  In the course of using the
            Ο.
15
     statistics for the opioid use disorder
16
     prevalence in the counties, did you identify
17
     or quantify in any way the breakdown within
     that prevalence of those that would have a
18
19
     mild opioid use disorder, those who would
20
     have a moderate opioid use disorder, and
21
     those who would have a severe opioid use
22
     disorder?
23
                  Well, yes, my analysis was
24
     based on the SOUD, which is a severe opioid
25
     use disorder
```

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```
distinction.
           Ο.
                 Are you familiar with the
3
     quidance in DSM-V that the diagnostic codes
     contained within are not to be used in a
     checklist or a cookbook fashion?
                  Can you repeat that?
                  Are you familiar with DSM-V's
     quidance that the criteria contained within
     it are not to be used as a checklist or a
10
     cookbook?
11
           Α.
                  In a forensic context or in
     just a general --
12
           Q.
13
                  In all contexts.
                  Well, I told you what I was
14
15
     familiar with, that there is a, you know, a
16
     set of questions and there's time period and
17
     there's severity.
18
                  Okay. Do you know in your
19
     research on DSM-V that it's meant to be used
2.0
     with the application of clinical judgment?
21
                  Generally that's the case, yes.
22
                  Okay. And in adopting the
23
     prevalence rate from the national data that
24
     you reviewed, did you apply any independent
```

clinical judgment to the populations in

```
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                   Okay.
                   So and that's important,
     because that is one area in which my work is
     very conservative, to not take into account
     any effects that are working through people
     who might have mild or a moderate disorder.
                  Do you know the prevalence rate
     based on the national data for mild or
     moderate opioid use disorder?
                  You know, I'm not sure.
11
                  Based on your studies, do you
     know -- are you familiar with DSM-V's
13
     quidance to professionals using DSM-V in a
14
     forensic setting?
15
           Α.
                  In a forensic setting?
                  Well, you didn't use it in this
16
17
     case in a clinical setting, did you?
18
                  I used it in an epidemiology --
19
     epidemiologic setting, I would say.
20
                  And so in a forensic setting,
21
     are you familiar with the guidance for how
22
     DSM-V is to be used?
23
           A.
                  In general?
24
           Ο.
                  Yes.
```

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25

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No. I don't know the

```
Cuyahoga or Summit County to lead to the
     conclusion that it was appropriate to use in
3
     this case?
           Α.
                  Well, I didn't apply
     independent clinical judgment.
                  MR. CARTER: Okay. Based on
           time, those are the questions I have
           for you. I'm going to hand the mic to
9
           another attorney.
10
                  Can we go off the record?
11
                  VIDEOGRAPHER: The time is
12
           5:17 p.m., and we're off the record.
13
            (Off the record at 5:17 p.m.)
14
                  VIDEOGRAPHER: The time is
15
           5:19 p.m., and we're on the record.
16
                   CROSS-EXAMINATION
17
     QUESTIONS BY MR. HALLER:
18
                  Professor McGuire, I'm David
19
     Haller of Covington & Burling.
2.0
                  Are you able to point me to any
21
     accounting records or budget requests from
22
     either county which documented any
23
     reallocation of resources, either of employee
24
     time or other recourses, from one area to be
     redirected to opioid-related activities?
```

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```
MR. SOBOL: Objection. Asked
            and answered.
                  THE WITNESS: This is a
            question we spent quite a bit of time
            on this morning, and it's important to
            keep in mind that my objective in this
            report is to identify the funds
            devoted to opioid-related activities
            and interpret those as economic
            opportunity costs, which is what I
11
            tried to do in my report.
                  And the question of whether
            there may or may not have been a
14
            budget document requesting
15
            reallocation isn't necessary for me to
16
            be able to make that determination.
17
     QUESTIONS BY MR. HALLER:
18
                  My question wasn't whether it's
19
     necessary, just whether you did it.
20
                  MR. SOBOL: Objection.
21
     QUESTIONS BY MR. HALLER:
22
                  Did you look for any such
            Ω
23
     documents?
24
                  MR. SOBOL: Objection. Asked
25
            and answered.
```

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```
way, go ahead.
                   THE WITNESS: I think I can
3
            answer the question.
                   But it is important to know,
            for an audience or a reader of mv
            deposition transcript, to understand
            that my objective in conducting my
            report was to identify spending by the
            bellwethers on opioid-related
10
            activities, which is -- which
11
            corresponds to the very well-regarded,
12
            down-the-middle-of-the-plate concept
13
            of economic opportunity costs.
14
                   And using that well-accepted
15
            approach does not require me to
16
            identify what other services the
17
            bellwether counties did or would have
1.8
            wanted to spend those funds on.
19
                   So, no, it was not necessary
2.0
            for me to do that.
21
      QUESTIONS BY MR. HALLER:
22
                   And, no, you did not do that;
23
      is that right?
24
                   MR. SOBOL: Objection. Asked
            and answered.
```

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```
THE WITNESS: In order to give
            a clear and complete answer to this
            question, I think it's important,
            rather than just say yes or no --
     QUESTIONS BY MR. HALLER:
                  Can you include yes or no in
     your answer, at least?
                  MR. SOBOL: Do you want to
            withdraw the question? You want to
10
            ask him a question? Do you want to
11
            interrupt him? What do you want to
12
13
                  MR. HALLER: He's going to give
14
            a very long question -- a very long
15
            response, and I'd like to make sure
16
            ves or no is somewhere in there.
17
                  MR. SOBOL: Well, he'll answer
18
            the question as he can truthfully tell
19
            it, not without any coaching by you.
2.0
                  MR. HALLER: I think coaching
21
            is your primary domain.
22
                  MR. SOBOL: I'm Bill Belichick,
23
            so I don't mind being called a coach.
24
                  Go ahead, Professor. If you
25
            can answer the question in a truthful
```

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```
OUESTIONS BY MR. HALLER:
                  I asked you to include
3
     somewhere in your long speech a yes or no
     response to my question, which was whether
     you did it.
                  MR. SOBOL: Well, again, he
           gets to answer the question as best he
           can and not --
                  MR. HALLER: If you have an
10
           objection, say objection and then
11
           leave it at that.
12
                  MR. SOBOL: No, I'll say
13
           whatever I feel like.
                  MR. HALLER: You're going to
14
15
           continue being the bully you've been
16
           for two days? Is that what you're
17
           going to do?
18
                  Objection. Yes or no?
19
                  MR. SOBOL: Professor, you can
2.0
            answer the question as truthfully as
21
           you can without having to include
22
           words that are required by the
23
           examining attorney.
24
                  THE WITNESS: I think I can be
           completely responsive to your
```

```
question.
                   MR. HALLER: Thank you.
                   THE WITNESS: And I regard it
            to be an important question since it
            was asked so many times.
                   And the answer is the same:
            that the purpose of my report was to
            identify the opioid-related spending
            of the various divisions in the
            bellwether governments for various
            years, and that's what I did.
                   The interpretation of that
            spending is economic opportunity
14
            costs. That tells me what I need to
15
            know in order to answer my assignment.
                   It was not necessary for me to
17
            know how else the funds might have
18
            been used and what other possible
19
            desired targets that the bellwether
2.0
            divisions had to for those funds.
21
                   So it was not necessary, and I
22
            didn't do it
     OUESTIONS BY MR. HALLER:
23
24
                  Thank you.
25
                  You started out today talking
```

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```
and more completely.
2
           Ο.
                  Sorry.
3
                   Do you remember what in
     particular in your report wasn't sufficiently
     clear to you such that you needed
     clarification?
                  Well, I wouldn't put it that
     way. It wasn't that there was something that
     wasn't clear to me. I just found it helpful
10
     to talk through some of the operations. It
11
     helps set things in my mind.
           Q.
12
                  Now, in reference to mortality,
13
     earlier today you stated that some of the
14
     people who died in the two counties would
15
     have been county employees.
16
                   Do you remember that?
17
                  Yes, I do remember that.
18
                   Do you in fact know whether or
19
     not anyone who died in Summit or Cuyahoga
2.0
     from an opioid overdose was in fact a county
21
      employee?
22
                   I think you're -- I mean, the
23
     point of your question seems correct, that
24
     that was an inference on my part, that there
```

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      about a conversation you had had with Compass
     Lexecon about OUD prevalence between the time
     of your first day of deposition and today.
                  Do you remember that?
                  I do, yeah.
           Α.
                   I take it before you made that
     call, you reviewed your report section
     concerning OUD prevalence; is that right?
                  Yes, that's right.
10
                  And what was it that was in --
11
     how was it that your report wasn't
      sufficiently clear to you such that you
13
     needed clarification from Compass Lexecon?
14
                   What was it that wasn't
15
     sufficiently clear?
                  Well, I -- there's lots of
16
           Α.
17
     things that one has to keep in mind in a
18
     deposition. And what is clear, you know, to
19
     me in rereading my report -- what I said to
20
     myself is, well, let's go over this again
21
     verbally so I'm in a better position to
22
     answer questions about it.
23
                  So I just wanted to go over the
     calculations of the OUD rate again so I would
24
```

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25

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be able to answer questions more carefully

```
chances are very good that one of them or
     more was a county employee.
3
                  But you don't know for a fact
     whether any were; is that right?
                  No. As I said, this was, I
     think, a reasonable inference on my part.
           Ο.
                  But do you know for a fact
     whether any of them were?
9
                  MR. SOBOL: Objection. Asked
10
           and answered already.
11
                  THE WITNESS: I thought it was
12
           a reasonable inference on my part.
13
     QUESTIONS BY MR. HALLER:
14
                  Do you know the difference
15
     between drawing a reasonable inference and
16
     knowing something for a fact?
17
                  MR. SOBOL: Objection.
18
                   You can answer --
19
     QUESTIONS BY MR. HALLER:
2.0
                  Are those the same things to
21
     you?
22
                  No, I understand the
23
     difference.
24
                  Okay. So I want to just know
     whether you know for a fact whether any of
```

were thousands of people who died, and

```
the employees -- whether any of the opioid
     overdose victims were in fact county
3
     employees.
                  MR. SOBOL: Objection. Asked
           and answered four times.
                  THE WITNESS: My statement,
           when that was brought about -- we just
           discussed that today -- was an
           inference on my part. It was not a
11
     QUESTIONS BY MR. HALLER:
12
                  Okay. Are you aware whether
13
     the statistics given to you from Professor
14
     Cutler and Professor Rosenthal on which you
15
     relied were national statistics or whether
16
     they were Cuvahoga or Summit County-specific?
                  MR. SOBOL: Objection. Form.
17
18
                  Which statistics?
19
                  MR. HALLER: The harm
20
           percentages.
21
                  THE WITNESS: Well, there
22
           are -- it still depends on what
23
           statistics you're talking about.
     QUESTIONS BY MR. HALLER:
24
25
                  The Cutler harm percentages, do
```

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```
But you can answer.
                   THE WITNESS: Well, Rosenthal's
            statistics are somewhat different
            She used national statistics on
            shipments and as her dependent
            variable, and then national-level
            information on detailing as her key
            independent variable.
                   So her percentages were based
10
            on a kind of national average.
11
                   MR. SOBOL: Okay. I think
12
            that's it.
13
                   MR. HALLER: Well, I have many
            more questions. I do think you used
14
15
            up, Counsel, a good 30-plus minutes in
16
            speaking objections and snide remarks,
17
            and I think we have a right to
1.8
            another, at least, 30 minutes.
19
                   MR. SOBOL: Well, that's -- no,
2.0
            you don't.
21
                   CROSS-EXAMINATION
22
     QUESTIONS BY MR. SOBOL:
23
                   Professor McGuire, I have a
24
      couple of questions for you.
                   You testified several times
```

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you know whether those were national
     statistics or Summit and Cuyahoga-specific?
                  MR. SOBOL: Objection. Form.
                   THE WITNESS: The Cutler
           statistics, of which there's more than
           one in the report -- more than one set
           in the report, were primarily based on
           an econometric analysis of what he
           referred to in his report as large
           counties that included Cuyahoga and
11
           Summit. And in total, I think it was
           around 300 counties or so.
                  And his estimated shares of
14
           harms due to shipments was a -- kind
15
           of a summary number coming from that
16
           set of counties.
17
     QUESTIONS BY MR. HALLER:
18
                  And similarly with regard to
19
     Professor Rosenthal, are you aware of whether
20
     her misconduct percentages, whether those
21
     were in relation to national detailing
22
     efforts or whether those were specific to
23
     Cuyahoga and Summit?
                  MR. SOBOL: Objection. Form.
24
25
                  Which?
```

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```
yesterday -- last week and today regarding
     certain quantitative inputs you received from
     Dr. Cutler's report, correct?
           Α.
                  Yes.
                  Does your model depend upon the
     particular quantification of Dr. Cutler's
     shares in order for it to be operative?
                  MR. KEYES: Objection. Form.
9
                  THE WITNESS: Can I answer?
10
                  MR. SOBOL: Yes.
11
                  THE WITNESS: My model would
12
           work as well with other estimated
13
           shares from Cutler.
                  MR. SOBOL: Nothing further.
14
15
                 RECROSS-EXAMINATION
16
     QUESTIONS BY MR. HALLER:
17
                  Does your report reflect that
18
     additional work you'd need to do, or is that
19
     work you would have to do subsequently?
2.0
                  It's very straightforward math.
21
     So, I mean, I didn't do alternative
22
     calculations except with regard to Cutler
23
     Approach 1 and Cutler Approach 2. That, I
24
     think, illustrates exactly the thing we're
     talking about now: that if the percentages
```

```
were somewhat different, as they were in the
     two approaches, then it's -- you know, it's
3
     an Excel operation, really, to be able to
     determine damages.
           Q.
                  But that doesn't appear in your
     report, correct?
7
                  MR. SOBOL: Objection.
                  THE WITNESS: Yes, it does.
     OUESTIONS BY MR. HALLER:
                  The alternative calculations
11
     appear in your report or they don't?
           Α.
                  Yes, they do.
13
           Ο.
                  Where are thev?
14
                  This is what's referred to as
           Α.
15
     Approach 1 and Approach 2.
16
                  No, I'm saying apart from
           Ο.
     Approach 1 and Approach 2. If there were
17
     additional -- initial quanti --
18
19
     quantification done by Professor Cutler, you
20
     would need to do additional work yourself,
21
     right?
22
           Δ
                  What I indicated was that
23
     the -- and I thought the question was, does
24
     my report -- do my damages estimates apply --
     could they be determined with other Cutler
```

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```
1
                      CERTIFICATE
2
                I, CARRIE A. CAMPBELL, Registered
     Diplomate Reporter, Certified Realtime
     Reporter and Certified Shorthand Reporter, do
     hereby certify that prior to the commencement
     of the examination, Thomas G. McGuire, PhD,
     was duly sworn by me to testify to the truth,
     the whole truth and nothing but the truth.
                I DO FURTHER CERTIFY that the
     foregoing is a verbatim transcript of the
     testimony as taken stenographically by and
     9
     hereinbefore set forth, to the best of \ensuremath{\mathsf{m}} y
     ability.
10
                I DO FURTHER CERTIFY that I am
11
     neither a relative nor employee nor attorney
     nor counsel of any of the parties to this
12
     action, and that I am neither a relative nor
     employee of such attorney or counsel, and
13
     that I am not financially interested in the
     action.
15
16
            Carrie a. Campbell
           CARRIE A. CAMPBELL,
           NCRA Registered Diplomate Reporter
18
           Certified Realtime Reporter
           Notary Public
           Dated: May 1, 2019
2.0
21
23
2.4
25
```

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percentages.
                   And the answer is, ves. it's
     easy. And the fact that I did it for
     Approach 1 and Approach 2, which involved
     different Cutler numbers, indicates the
      readily available calculations I could make.
7
                  MR. SOBOL: Time's up. Thank
           you very much, everybody.
                   VIDEOGRAPHER: The time is 7 --
            or 6:30 p.m., and this deposition has
11
            concluded and we're off the record.
12
            5:30.
                  MR. CARTER: Obviously, you
14
           know, defendants reserve the right to
15
            seek additional time based on the
16
            extensive speeches by the witness and
17
            the speaking objections, but we'll
18
            deal with that offline.
19
          (Deposition concluded at 5:31 p.m.)
20
21
22
23
24
25
```

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3

9

10

11

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19

2.0

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INSTRUCTIONS TO WITNESS
           Please read your deposition over
carefully and make any necessary corrections.
You should state the reason in the
appropriate space on the errata sheet for any
corrections that are made.
          After doing so, please sign the
errata sheet and date it. You are signing
same subject to the changes you have noted on
the errata sheet, which will be attached to
your deposition.
           It is imperative that you return
the original errata sheet to the deposing
attorney within thirty (30) days of receipt
of the deposition transcript by you. If you
fail to do so, the deposition transcript may
be deemed to be accurate and may be used in
court.
```

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1	ACKNOWLEDGMENT OF DEPONENT
2	
3	
4	I,, do
	hereby certify that I have read the foregoing
5	pages and that the same is a correct
	transcription of the answers given by me to
6	the questions therein propounded, except for
	the corrections or changes in form or
7	substance, if any, noted in the attached
	Errata Sheet.
8	
9	
10	
11	
12	
	Thomas G. McGuire, Ph.D. DATE
13	
14	
15	
	Subscribed and sworn to before me this
16	day of, 20
16 17	
	day of, 20
17	day of, 20
17 18	day of, 20 My commission expires:
17 18 19	day of, 20 My commission expires:
17 18 19 20	day of, 20 My commission expires:
17 18 19 20 21	day of, 20 My commission expires:
17 18 19 20 21	day of, 20 My commission expires:

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